

# TECHNICAL MEMORANDUM NO. 13 PILOT-SCALE TREATABILITY STUDY FOR RESERVOIR LIQUIDS REMOVAL (REVISION 1.0)

Prepared for:

**United States Environmental Protection Agency** 

Prepared by:

**TRC** 

Irvine, California

Representing:

Waste Disposal, Inc. Group

Project No. 94-256 March 1999

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#### WASTE DISPOSAL INC. SUPERFUND SITE

#### **Project Coordinator**

March 25, 1999

Project No. 94-256

Mr. Mark Filippini U.S. Environmental Protection Agency 75 Hawthorne Street, No. H-7-2 San Francisco, California 94105-3901

Transmittal
Technical Memorandum No. 13 (Revision 1.0)
Pilot-Scale Treatability Study
for Reservoir Liquids Removal
Waste Disposal, Inc. Superfund Site

Dear Mr. Filippini:

Enclosed you will find a copy of Technical Memorandum (TM) No. 13 Pilot-Scale Treatability Study for Reservoir Liquids Removal, Revision 1.0, for the Waste Disposal, Inc. (WDI) Superfund Site located in Santa Fe Springs, California. This submittal is consistent with the timetables noted in your March 11 and 19, 1999 letters.

Also attached is a table which are the Responses to the March 11 and 19, 1999 EPA Comments on the TM No. 13 Pilot-Scale Treatability Study for Reservoir Liquids Removal (Rev. 0), respectively. As previously discussed, TM No. 13 field activities are anticipated to begin on April 19, 1999.

Please feel free to call me with any questions or comments at (562) 692-4535.

Sincerely,

Ian Webster

WDIG Project Coordinator

IW/EA:im Enclosures

cc: Andria Benner, EPA
Boone and Associates, for WDIG
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	EPA CONCERN/COMMENT	ļ	RESPONSE TO COMMENT
Ge	neral Comments		
1.	The criteria for determining whether a waste stream is a hazardous waste should be specified in the TM. It is assumed that it is the disposal facilities acceptance criteria; please specify. Also include a copy of the acceptance criteria for each of the disposal facilities in an appendix.	1.	TM No. 13 will include the criteria for determining whether the liquids extracted from the reservoir are a hazardous waste. This determination will be based on State and Federal Hazardous Criteria and the disposal facilities acceptance criteria.
		1A	A. A copy of the disposal facilities acceptance criteria will be included as an attachment to TM No. 13.
2.	Details of the sampling and analysis procedure should also be specified in the TM. See specific comments below.	2.	Details of the sampling and analysis procedures during the treatability study will be included in TM No. 13. During the first month of operations, a sample will be collected once a week from the extraction wells and a composite sample from the storage containers. Samples will be analyzed for the constituents provided on Table 1 in TM No. 13. After the first month of operating the system sampling will be reduced to one sample per month.
3.	No well shall be removed from service or destroyed without prior approval by the regulatory agencies. If any well is removed from service for lack of product recovery or hazardous waste criteria, it will be the intent of the agencies to leave the well in place throughout the Treatability Study to observe potential seasonal variations in the well.	3.	WDIG will leave all TM No. 13 wells in place throughout the remainder of the Treatability Study. If a well is removed from the system (i.e., extracted liquids meet hazardous waste criteria or lack of liquids recovery), liquid levels will be monitored manually.
4.	The Liquids Subcommittee may implement periodic, temporary shutdowns of the system in order to observe liquid recovery rates and levels, system-wide. The schedule of these shutdowns will depend on liquid recovery rates and levels observed throughout the Treatability Study. WDIG, as part of the subcommittee, will be involved in the determination of the timing and duration of these shutdowns.	4.	Any changes to the approved TM No. 13 workplan should be decided by the Liquids Subcommittee.
5.	The agencies are interested in implementing the Treatability Study as soon as possible. Therefore, EPA has expedited turnaround of our comments on TM 13 to the WDIG. Receipt of these comments two weeks ahead of the proposed schedule should result in a two week compression of the schedule. Please adjust the schedule accordingly.	5.	WDIG will initiate TM No. 13 field activities on April 19, 1999.



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	EPA CONCERN/COMMENT		RESPONSE TO COMMENT
Spe	cific Comments		
1.	Section 1.0, Paragraph 1: The purpose of the study is to provide quantitative data on the rate of liquids removal from the reservoir given the highly heterogeneous nature of the reservoir contents. The results of the study may allow focusing selected areas of the reservoir for limited liquids recovery as part of the final remedy. Although it is recognized that cost is one of nine CERCLA/NCP factors considered during remedy selection, the WDIG should be prepared to compare liquids extraction using wells with other actions in addition to no action (or seek an ARAR waiver).	1.	WDIG will be prepared to compare liquids extraction using wells with other technologies in addition to no action (or seek an ARAR waiver) pending the results of the Treatability Study as part of the Feasibility Study.
2.	Section 1.0, Paragraph 2: This paragraph states that the reservoir was filled in with oil field production waste. However, the reservoir also contains concrete and other debris, and chemicals such as TCE, PCE, 1,1,1-TCA and PCBs. The text needs to be revised to state that solvents and PCBs were disposed in the reservoir.	2.	The text will be revised to state that concrete and other miscellaneous debris have been observed in the reservoir, in addition to solvents and PCBs which have been detected in samples collected from the reservoir media during previous reservoir investigations.
3.	Section 3.0, Paragraph 1. We know that liquids can be removed using pumps. The 1998 studies proved that. Unfortunately the 1998 studies were not implemented long enough to produce a discernable affect on reservoir liquid levels. We do not know how long it will take to remove liquids to minimal recovery rates so that the ARAR can be addressed. We agree that the study outlined in this TM will "allow for a better evaluation of reservoir hydraulics" that will also "achieve a substantial removal of reservoir liquids." The term "substantial" used in this paragraph should reflect the recoverable "free liquids" and not just liquids in general.	3.	The text will be revised to state, "achieve a substantial removal of reservoir free liquids."

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	EPA CONCERN/COMMENT		RESPONSE TO COMMENT	
Spe	cific Comments (Continued):			
4.	Section 3.0, Paragraph 2, second bullet. "Cost-effectiveness" will require a comparison to other methods, not just no action. The effort proposed here is a low-technology approach with the significant cost related to liquids treatment and disposal, not extraction.	4.	The overall feasibility evaluation of reservoir liquids removal will be addressed as part of the FS.	
5.	Section 4.0, Paragraph 4. The acceptance criteria of the waste treatment/disposal facilities need to be included to ensure that the analytical methods meet the limits set by the facilities.	5.	See Response to General Comments Nos. 1 and 1A.	
6.	Section 4.0, Paragraph 7, second bullet. WDIG needs to review the TM No. 6 sampling procedures to make sure that they are directly applicable to TM No. 13 sampling. For example, please assure that TM No. 6 addresses the sampling from a port installed within a well extraction pipe and sampling from a peristaltic pump tubing. Any variances from the TM No. 6 procedure need to be addressed in TM No. 13.	6.	See Response to General Comments No. 2.	
7.	Section 4.0, Paragraph 8. The frequency of inspection during the first 24 hours needs to be specified. One must assume that the system and piping will be monitored continuously for at least the first two hours. Please specify when checks will be reduced and to what frequency; every hour, every two hours, etc.	7.	The system will be monitored continuously for the first 12 hours of operation, or longer if necessary. Monitoring will then be reduced to every 4 hours for the next 48 hours (daylight hours only). At the completion of the initial 72 hours of monitoring, the monitoring frequency will be changed to once every day for a week, then to once a week for every month or as necessary based on recovery rates, tank capacities and monitoring systems. At that time the Liquids Subcommittee will determine an ongoing monitoring schedule.	
8.	Section 5.0, Paragraph 1. Again, the frequency of checking the system must be presented. Once per day, once every two days, etc.	8.	See Specific Comment No. 7.	



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	EPA CONCERN/COMMENT	RESPONSE TO COMMENT
Spe	ecific Comments (Continued):	
9.	Section 5.0, Paragraph 4, first bullet. Hazardous waste delineation criteria must be presented in the plan, particularly in relation to the acceptance criteria of the receiving facilities.	9. See General Comments Nos. 1 and 1A.
10.	Section 5.0, paragraph 4, second bullet. The criteria for changing or discontinuing pumping rates needs to be specified. At present, the only acceptable criteria is that the well does not recover during the testing period to the level of the well intake or that the recovery is so slow that there is concern that the pump may be damaged. For those wells with extremely low recoveries (that is less than 6 inches per day), the WDIG is expected to collect daily liquid level measurements from the well to provide empirical data on the recovery rate. In no instance should the WDIG remove a pump or cease pumping at a location until the recovery data are presented to and discussed with EPA. Because it is expected that the recovery wells will be pumped dry shortly after the pumps are turned on and that the pumps will then be automatically cycled when liquids recover to a certain level (e.g., float switches), the cycling of the pumps will be based on individual well recovery rates and these rates must be understood before recommendations for cessation of pumping can be made to USEPA. Please specify what liquid level points will trigger the pump to shut off and turn on. EPA is concerned that as recovery levels diminish, additional methods may be required to recover the last several feet of liquids remaining in any wells that cannot be extracted by the proposed pumping system.	<ol> <li>Refer to Figure 6 in TM No. 13 for the criteria for changing or discontinuing pumping of an extraction well.</li> <li>WDIG will monitor the extraction wells regularly to provide empirical data on the recovery rates. These wells will initially be monitored daily; however, the frequency of monitoring will be adjusted based on the rates of recovery. Refer to General Comments No. 3.</li> <li>The trigger points for the pump to shut off and turn on will be as follows:         <ul> <li>Shutoff: Approximately 18 to 24 inches (i.e., location of pump inlet) above the bottom of the extraction well.</li> <li>Turn-on: Approximately half the initial water column. This may be adjusted based on field observations.</li> </ul> </li> <li>The extraction wells will be installed with a 1 foot sump at the bottom of the well. Therefore, the removal of the liquids beyond this point will be impractical.</li> <li>Section 5.0, "Pilot Plant Operational Maintenance Procedures" of the TM will be revised to reflect EPAs Specific Comment No. 10.</li> </ol>

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	EPA CONCERN/COMMENT	RESPONSE TO COMMENT		
Spe	cific Comments (Continued):			
11.	Section 5.0, Paragraph 4, third bullet. The criteria for acceptance/non-acceptance of the liquid wastes needs to be included in TM No. 13 as discussed in General Comments.	11.	See General Comments Nos. 1 and 1A.	
12.	Section 6.0, Paragraph 1. The purpose of this study is do more than just observe liquid extraction conditions and determine the cost-effectiveness of liquids removal. The study will provide quantitative data on liquids removal/recovery rates reservoir-wide. The locations picked by the WDIG will complete the overall reservoir liquids chemical characterization initiated by WDIG and EPA contractors. This study should be treated as a quantitative evaluation, not just a qualitative evaluation.	12.	Quantitative evaluation of the reservoir liquids removal will be recorded using pulse counters attached to the extraction wells.	
13.	Section 6.0, Paragraph 1, bullet items on parameters. Please specify how the overall liquids level in the reservoir will be monitored. During prior investigations it was shown that when a well was pumped until dry, the adjacent monitoring points would show some drawdown, but all wells recovered to the original levels once pumps were turned off. A program to periodically shut off extraction wells to monitor recovery rates and liquids levels will be implemented as discussed above in General Comments.	13.	During the January 22, 1999 Liquids Subcommittee meeting, EPA and WDIG agreed to install extraction wells only and that the purpose of TM No. 13 was not to "chase" liquids in the reservoir. The quantitative evaluation of the Treatability Study will be based on the productivity of the extraction wells.	
14.	Section 9.0, Paragraph 1. If data on liquids levels are collected, they should be included in the monthly report. The monthly report should also include any recommendations for changes in the pumping program.	14.	The monthly report will include liquid levels and recommendations for any changes to the study.	

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EPA CONCERN/COMMENT	RESPONSE TO COMMENT
Specific Comments (Continued):	
15. Table 1. Chlorinated pesticides were not a chemical of concern for the reservoir. WDIG should consider running only the PCB component of the PCB/pesticide analysis.	15. WDIG will perform only the PCB component of the PCB/pesticide analysis.

	ADDITIONAL VERBAL COMMENTS FROM EPA		RESPONSE TO COMMENT
1.	Submission of an addendum describing Quality Assurance Project Plan (QAPP) procedures to TM No. 13.	1.	A brief addendum describing the appropriate sampling methodology and QA/QC requirements will be prepared and submitted as an attachment to TM No. 13.
2.	Determine the appropriateness of the existing "PB" wells (i.e., depth, construction and condition).	2.	Prior to installing the extraction pump in the "PB" wells, the well will be inspected for:  • Presence of Liquids.  • Presence of silt.  • Ability to install a pump.  • Well scaling.  If the above conditions inhibit the ability to extract liquids from the "PB" wells, a new well will be installed.
3.	WDIG should consider the use of No. 3 grade sand versus pea gravel.	3.	WDIG will continue to use pea gravel for the following reasons:  Pea gravel has been used successfully in other reservoir well locations.  No. 3 grade sand may become impacted by the drilling muds, reducing the effectiveness of the wells.  ERT testing in the reservoir demonstrated that the gravel pack was effective.

94-256 (3/26/99/ks)



SUBJECT:

Technical Memorandum No. 13 - Pilot-Scale Treatability Study

**DATE:** March 25, 1999

for Reservoir Liquids Removal

SUBMITTED TO: Mark Filippini, U.S. EPA

**PROJECT NO.:** 94-256

SUBMITTED BY: Ian Webster, WDIG Project Coordinator

cc:

Andria Benner, EPA Bill Coakley, ÉPA ERT Tim Crist, CIWMB Mike Finch, DTSC

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Ed McGovern, WESTON

Dave Becker, Army Corp of Engineers

Roberto Puga, Project Navigator, Ltd.

#### Boone & Associates, for WDIG Members

#### 1.0 PROJECT DESCRIPTION AND SITE BACKGROUND

- 1. This Technical Memorandum (TM) No. 13 Pilot-Scale Treatability Study for Reservoir Liquids Removal, describes the liquids extraction, treatment, disposal and analytical procedures proposed to conduct a pilot-scale treatability study for reservoir liquids removal at the Waste Disposal, Inc. (WDI) Superfund Site. The purpose of this study is to qualify the effectiveness of liquids removal (i.e., is pumping a cost-effective means of removing liquids from the reservoir). Additionally, liquids data will be collected to supplement the TM Nos. 6, 8 and 12 activities and findings.
- 2. The WDI site was originally used for the storage of crude oil produced in the Santa Fe Springs area in the early to late 1920s. A concrete-lined reservoir was constructed to contain approximately one million barrels of oil (42 million gallons). The reservoir was decommissioned for oil storage in the late 1920s. The reservoir was filled with oil field production wastes in the 1950s and later covered with soil fill and graded to its present condition. Recent reservoir investigations have shown the reservoir to contain concrete and other miscellaneous debris. Solvents and PCBs have also been detected in the reservoir in isolated areas. For an extensive explanation of the site history, refer to EBASCO's Remedial Investigation (RI) Report dated November 1989 and TRC's (Environmental Solutions, Inc.) Predesigned/Intermediate (60%) Design Report dated June 1996.
- 3. In 1998 the Waste Disposal, Inc. Group (WDIG) conducted several reservoir liquids investigations which included pump tests and trenching. The scope of work performed during these investigations is outlined in the following TMs and workplans:

  - TM No. 6 Reservoir Liquids Recovery Testing, November 25, 1997. Addendum TM No. 6 Additional Extraction Wells and Pump Tests, July 10, 1998.
  - TM No. 8 Additional Reservoir Liquids Extraction Well/Probe Sampling, January 19, 1998.
  - TM No. 12 Additional Reservoir Liquids Recovery Testing and Piezometer Abandonment, September 18, 1998.
  - Revised Phase II Workplan Reservoir Interior Test Trench Excavation, August 31, 1998.
  - EPA's Perched Liquids Characterization Phase I Reservoir Integrity and Exterior Area Test Pit Excavation, August 21, 1998.
- 4. The purpose of TM Nos. 6 and 8 activities was to assist in determining the hydraulic yield potential and chemical characteristics of the liquid material (free and aqueous phase) contained within the buried reservoir at the WDI site. The specific objectives for each of these activities were as follows:
  - Estimate the hydraulic yield of the saturated portion of the reservoir and extraction well radius of influence.
  - Delineate chemical and physical characteristics of both free and aqueous phases of encountered reservoir liquids.
  - Characterize chemistry of soil gas from evacuated portion of saturated reservoir material, if possible.

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- 5. Liquids recovery tests were also performed as outlined in TM No. 12. These tests consisted of purging 62 1-inch-diameter piezometers installed by EPA and monitoring the recovery rates of the liquids. The primary objectives of TM No. 12 recovery testing were as follows:
  - Characterize the recharge rates of the reservoir liquids.

• Determine the presence and recovery rates of free product.

- Determine if reservoir liquid levels return to static/background levels.
- 6. The purpose of the Phase II trenching activities was to assist in determining the location of liquids (free and aqueous phase) within the buried reservoir. The objectives of these activities, shown below, were similar to TM Nos. 6, 8, and 12:
  - Observe liquid conditions in the fill and waste material.
  - Measure release rates of the liquids encountered in the test trench.
  - Measure change in liquid levels and quantities over time.
  - Observe physical behavior of waste material.
  - Measure the production values for trench waste.
- 7. Observations and analytical data collected during the investigative activities showed the following characteristics of the materials encountered within the reservoir:
  - · Reservoir liquids consist of infiltrated rainwater and crude oil.
  - Fill material consists of an extremely heterogeneous silty sand to sandy silt layer intermixed with wood and concrete debris.
  - Waste material consists of black stained clays (drilling muds) with zones of liquids and product.
  - Hydraulic characteristics of liquids within the reservoir boundary are extremely heterogeneous.
  - Chemical characteristics of liquids do not indicate the liquids are a hazardous material.
  - Liquids within the sump and fill material are contained within higher permeability zones.
- 8. Refer to the following TM Nos. 6, 8 and 12 and Phase II Report of Findings (ROF) for a complete description of the data collected during field activities:
  - Technical Memoranda Nos. 6, 8 and 12 Reservoir Liquids Testing, Report of Findings, October 30, 1998.
  - Phase II Reservoir Interior Test Trench Excavation, Report of Findings, October 16, 1998.

#### 2.0 REMEDIAL TECHNOLOGY DESCRIPTION

- 1. The technology needed to perform the pilot-scale treatability study is briefly described in the following section.

  A detailed description of the design, layout and equipment specifications for the system is provided in Section 4.0.
- 2. The following technology will be used to conduct the reservoir liquids removal treatability study:
  - Eighteen extraction wells equipped with pneumatic pumps:
    - 8 existing wells.
    - 10 proposed new wells.
  - The extraction wells will be connected to three 1-inch-diameter laterals. These laterals are connected to a 2-inch-diameter central line, which conveys the liquids to the treatment unit.
  - Liquids treatment and storage units consisting of:
    - Oil/water separator unit.
    - Carbon unit for treated water polishing.
    - Storage containers for treated water and recovered oil.
  - The treatment unit will be equipped with the following safety systems:
    - Air compressor low pressure shut-off.
    - High level storage container AutoDialer to monitor liquid levels.
    - High high level storage container, system shut-off to prevent overfilling.

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#### 3.0 TEST OBJECTIVES

- 1. The purpose of this study is to further investigate the ability to extract liquids from the reservoir. As noted above, previous investigations have been performed to collect information on the characteristics of the liquids and materials within the reservoir boundary at discrete locations. These investigations were conducted at three localized pumping areas, including several small-sized trenches. In addition, the tests were performed for a short duration (i.e., 1 to 4 week pumping periods). Under larger scale conditions, (i.e., increase in the number of pumping wells, increase in reservoir coverage and extended periods for pumping), this treatability study will allow for a better evaluation of the reservoir hydraulics with which to define the overall feasibility of reservoir liquids extraction and perhaps achieve a substantial removal of reservoir free liquids.
- 2. The rationale for implementing a treatability study for reservoir liquids extraction is the following:
  - Determine the feasibility of reservoir liquids extraction on a large scale based on the in-situ characteristics of the materials within the reservoir boundary.

Determine if extracting reservoir liquids is cost-effective.

Reduce free liquids in the reservoir.

• Collect additional data to supplement TM Nos. 6, 8 and 12 activities and findings.

#### 4.0 PILOT PLANT INSTALLATION AND START-UP

- 1. The locations for the ten proposed extraction wells were selected based on TM Nos. 6, 8 and 12 and trenching findings. The eight existing wells were installed as part of previous reservoir investigations. The locations of all the wells were verbally approved by EPA during the reservoir liquids subcommittee meeting on January 22, 1999 in Berkeley, California. Figure 1 shows the locations of the 18 extraction wells.
- 2. Prior to installing the extraction pump in the "PB" wells, the wells will be inspected for the following conditions:
  - · Presence of liquids.
  - Presence of silt.
  - · Ability to install pump.
  - · Well scaling.

If the above conditions inhibit the ability to extract liquids from the "PB" wells, a new well will be installed.

- 3. The ten proposed wells will be constructed as shown in Figure 2. The construction of these wells is similar to the construction of TM Nos. 6 and 8 extraction wells (EX-1 and -2) with the exception that these wells will be constructed using 4-inch-diameter PVC casing. The location and identification of the existing wells are shown on Figure 1. Well construction details of the existing eight wells, are provided in the following reports:
  - TM No. 6 Reservoir Liquids Recovery Test.
  - TM No. 8 Additional Reservoir Liquids Extraction Well/Probe Sampling.
  - Revised Phase II Workplan Reservoir Interim Test Trench Excavations.

Wells installed by EPA (i.e., "PB" wells) will also be incorporated into the system.

- 4. The liquids will be extracted from the wells using pneumatic pumps attached to an air compressor capable of providing approximately 10 standard cubic feet per minute (scfm) of free air at 100 pounds per square inch (psig) of pressure to each well. The volume of liquids extracted from each well will be measured via an in-line meter (i.e., totalizer or pump cycle counter).
- 5. The purged liquids will be transferred via 1-inch diameter PVC piping from the wells to a main line which leads to the liquids treatment and storage unit bermed area. The liquids will initially be sent through an oil/water separator for disposal purposes. The water phase will be transferred to a sump and eventually pumped through a carbon absorption drum for the removal of trace organic constituents. Once the water has been treated, it will be stored in a Baker tank(s). Prior to disposing the water, samples will be collected and analyzed for the constituents listed in Table 1 to confirm analytical results meet the acceptance criteria of the disposal facility. The recovered oil will be transferred to either a 55-gallon drum or a Baker Tank. Prior to disposing the recovered oil, samples will be collected and analyzed for the constituents listed on Table 1 to also confirm analytical results meet the acceptance criteria of the disposal facility. A schematic of the reservoir liquids removal system and layout is shown in Figures 3 and 4. Refer to Attachment A for the acceptance criteria of the disposal facilities.

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- 6. The system will be equipped with a safety shut-off device and an AutoDialer to notify the appropriate personnel for immediate inspection of the system. Figure 3 shows the locations of these safety switches.
- 7. The materials and equipment for the system will be ordered and delivered to the site by local vendors. Installation and operation of the system will be performed by WDIG contractors. Refer to Table 2 for the materials and equipment specifications. Alternative equipment may be used pending availability and cost but will be approved by TRC's system design engineer to confirm equivalent specifications. Attachment B contains the specifications for the materials listed in
- 8. Prior to start-up, a shake-down of the system will be performed and include the following list of precautionary activities:
  - Verify well pumps work properly by connecting each well pump to the compressed air source and immersing the pump in a bucket of clean water. This procedure will confirm the operation of the float that turns the pump on and off. This also confirms that the pump is operating at the rated capacity (i.e., 5 gallons of water removed in  $\leq$ 5 minutes).
  - Obtain samples from the extraction wells (i.e., sample ports and/or disposable bailers) for analysis.
  - Visually inspect PVC connections for leaks by filling the lines with clean water prior to start-up of the pumps.
  - Visually inspect oil/water separator for leaks by filling with clean water and manually activating the high level switch to verify operation of the AutoDialer.
  - Visually inspect the transfer line of the recovered oil to the storage tank/drums for leaks by filling the lines with clean water.
  - Visually inspect collection sump for leaks by allowing it to fill with clean water. Confirm that the pump operates at a rate capable of maintaining similar flow rates from the oil/water separator by activating the pump with a known volume of water present in the sump and timing the pump out to confirm a rate of ≥18 gallons per minute (gpm). Manually activate the safety-switch to verify operation of the AutoDialer.
  - Visually inspect water line for leaks to the carbon canister and to storage tanks by filling the lines with clean water.
  - Inspect the instrumentation associated with the following controls:
    - Air Compressor Pressure Switch.

    - Effluent Storage Tank High Level Switch. Effluent Storage Tank High High Level Switch.
- 9. Once the system is online and inspected (i.e., meets the system designers satisfaction), the air compressor will be started and the system pressurized. The system will be monitored continuously for the first 12 hours of operation, or longer if necessary. Monitoring will then be reduced to every 4 hours for the next 48 hours (daylight hours only). At the completion of the initial 72 hours of monitoring, the monitoring frequency will be changed to once a day for a week, then to once a week for the first month and eventually to twice a month for the remainder of the study. Additional monitoring may be performed if necessary. Inspections will include the same list of actions noted above.

#### 5.0 PILOT PLANT OPERATIONAL MAINTENANCE PROCEDURES

- 1. Once the system has been initiated, it should operate with minimal operator involvement. However, the system will be monitored on a regular basis, as discussed above, to check for leaks, collect flow and volume data, collect liquid levels and to assure adherence to Health and Safety requirements. The system will also be monitored for Baker tank volumes and well totalizer readings.
- 2. The AutoDialer will notify designated personnel when liquid sampling and/or liquid transfer or disposal is required. In the event these operations are not performed in a timely manner, the system will automatically shut down to prevent liquid overflow from the storage tanks.
- 3. Only minor maintenance is required for this system. The major operating unit requiring maintenance is the air compressor which must be checked and lubricated as per the manufacturer's recommendations.

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4. The system will continue to operate during the schedule shown in Figure 5. During operation of the system, certain

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- 4. The system will continue to operate during the schedule shown in Figure 5. During operation of the system, certain criteria must be met to continue pumping from the wells. Figure 6 shows the "system shut-off" criteria decision tree. The "system shut-off" criteria consists of the following elements:
  - Chemical characterization of well output to assure nonhazardous characteristics prior to treatment.
    - If the well produces hazardous liquids, pumping from the well will be discontinued. The following will delineate the hazardous waste criteria for liquids extracted from the reservoir:
      - Total PCBs: >50 parts per million (ppm) or in excess of disposal criteria.
      - Remaining parameters: Above State and Federal requirements.
  - · Evaluation of pumping.
    - The extraction wells will be monitored regularly as noted above. If pump rates cannot be sustained, pumping frequency will be decreased or discontinued.
    - The trigger points for the pump to shutoff and turn-on will be as follows:
      - Shutoff: Approximately 18 to 24 inches (i.e., location of pump inlet) above the bottom of the extraction well.
      - <u>Turn-on</u>: Approximately half the initial water column. This may be adjusted based on field conditions.
  - · Chemical characterization of treatment effluent to assure disposal as nonhazardous liquid.
    - If the treated effluent cannot be disposed of as nonhazardous, pumping will be discontinued. The following will delineate the hazardous waste criteria for liquids extracted from the reservoir:
      - Total PCBs: >50 ppm or in excess of disposal criteria.
      - Remaining parameters: Above State and Federal requirements.
- 5. A description of the resident procedures is provided in Section 10.0.

#### 6.0 PARAMETERS TO BE MEASURED

- 1. The purpose of the treatability study is to observe reservoir liquids extraction conditions on a larger scale and to determine if pumping is cost-effective. The following parameters will be observed during the study to facilitate the evaluation of liquids extraction:
  - Individual well pump rates.
  - Total volume of liquids removed from each extraction well.
  - Total volume of liquids removed from the reservoir.
  - Sustainability of well yield over time.
  - The physical and chemical properties of the reservoir liquids.
- 2. The quantitative evaluation of the reservoir liquids removed will be recorded using pulse counters or totalizers attached to the extraction wells and system.

#### 7.0 SAMPLING PLAN AND ANALYTICAL METHODS

- 1. During TM No. 13 activities, the following locations will be sampled and analyzed:
  - Extraction wells (prior to system start-up and as needed pending effluent results).
  - Treatment system during start-up.
  - Stored effluent and recovered oil (disposal purposes only).
- 2. Samples will be collected from sample ports located at each of the locations noted above. If discrete samples are required (i.e., oil and water) disposable PVC bailers will be used.

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3. Table 1 and Addendum 1 (see Attachment C) provide a summary of the sampling procedures, analysis plan and Quality Assurance/Quality Control (QA/QC) procedures for TM No. 13 activities. As shown in Table 1, the frequency of sampling will be kept to a minimum. The majority of the sampling will be for the treated effluent and recovered oil disposal requirements.

#### 8.0 DATA MANAGEMENT

- 1. As discussed in Section 5.0, the system will be monitored on a regular basis. The following information will be recorded during each site inspection:
  - Inspector's name.
  - Date of inspection.
  - Individual well totalizer readings and liquid levels.
  - · Liquid volumes in storage containers.
  - Conditions of equipment.
  - Comments on visual inspection of the system.
- 2. Refer to Table 3 for an example field form to be filled out at the time of each TM No. 13 inspection.

#### 9.0 DATA ANALYSIS AND INTERPRETATION

- 1. Field and analytical data generated during the treatability study will be submitted to EPA in the form of a "TM No. 13 Monthly Progress Report." The monthly report will include the following information:
  - · Volume of liquids extracted.
  - Analytical data of stored liquids (recovered oil and treated water).
  - · Volume of liquids disposed, including disposal location.
  - Liquid levels in the extraction wells.
  - Recommendations for changes to the study.
- 2. A Closeout Report will be submitted to EPA at the completion of the TM No. 13 activities, or if the productivity of the wells appear to be insufficient. The Closeout Report will be followed by an As-Built Report. The As-Built Report will include an interpretation of the technology's effectiveness and implementability. In addition, the report will include specifications of the equipment used during the treatability study, detailed design of the system and any other information related to the study. Figure 5 shows a proposed schedule for TM No. 13 activities.

#### 10.0 HEALTH AND SAFETY

- 1. All activities at the site will be conducted according to WDIG's Site-Specific Health and Safety Plan(1).
- 2. In addition to the Site Health and Safety Plan, the following procedures will be implemented:
  - During start-up, the treatment unit will be monitored for volatile organic compounds (VOCs) using hand-held field monitoring equipment. If total VOC levels exceed 10 ppm in the treatment unit and storage container area, activities will be conducted in Level C or discontinued.
  - Odor monitoring will be conducted during start-up to assure that fugitive emissions do not cause odor problems. If odors are detected, the treatment unit will be shut down and the odor problem evaluated.
  - During start-up, all activities will be conducted using at least two onsite personnel (i.e., Buddy System). After start-up, inspection, minor modifications and site checks can be performed without requiring the Buddy System.

<sup>(1)</sup> TRC, Health and Safety Plan, Waste Disposal, Inc. Superfund Site, August 22, 1997.

SUBJECT:

TM No. 13 - Pilot-Scale Treatability Study

for Reservoir Liquids Removal

**DATE:** March 25, 1999

#### 3. Emergency Procedures:

#### Problem

#### Response

- Pipe Breaks/Leaks
- Shut down well and pump.
- Contain spills/liquids.
- Notify Project Manager (PM) and EPA RPM.
- Collect liquids/residuals.
- Tank or Treatment Unit Overflow
- Shut down system.
- Contain spills/liquids.
- Notify PM and EPA RPM.
- Contact Santa Fe Springs Fire Department (SFSFD), if necessary.
- Implement community contingency plan.

Fire

- Contact SFSFD.
- Notify PM and EPA RPM.
- Implement community contingency plan.

#### 11.0 RESIDUALS MANAGEMENT

- 1. To manage the treated aqueous effluent, the following procedures will be implemented:
  - When the treated water effluent tank (approximately 20,000 gallons) is close to full capacity, the effluent flow will be transferred to a 6,000-gallon storage container.
  - The 20,000-gallon effluent tank will be sampled as discussed in Section 7.0.
    - Laboratory analyses will be completed within 72 hours. Based on the disposal criteria for the facilities shown in Table 4, the final disposition of the liquids will be determined.
  - The designated licensed transporter (i.e., Consolidated Waste Industries) will be contacted and the aqueous phase liquids from the 20,000-gallon tank will be transported and disposed to a designated disposal facility (see Table 4).
  - The liquids in the 6,000-gallon backup tank will be transferred into the 20,000-gallon storage tank and the effluent flow from the treatment unit will be transferred back into the 20,000-gallon storage tank.
- 2. To manage the recovered oil, the following procedure will be implemented:
  - When the recovered oil storage container is near capacity, the effluent will be transferred to a backup storage container.
  - The recovered oil storage container will be sampled as described in Section 7.0.
  - Laboratory analysis will be completed within 72 hours. Based on the disposal criteria for the facilities shown in Table 4, the final disposition of the liquids will be determined.
  - The designated licensed transporter will be contacted and the liquids removed for disposal to a designated disposal facility (see Table 4).
  - If disposal problems (i.e., PCB detections, availability of transporter) occur, the following actions may be implemented:
    - Well pumping may be shut down until disposal issues are resolved.
    - Well pumping may be reduced until disposal issues are resolved.
    - Additional storage containers may be obtained to increase storage capacity temporarily.

SUBJECT:

TM No. 13 - Pilot-Scale Treatability Study for Reservoir Liquids Removal

**DATE:** March 25, 1999

#### LISTS OF ATTACHMENTS:

Attachment A: Disposal Facility Acceptance Criteria
Attachment B: Specifications of Equipment and Materials
Attachment C: Addendum 1 - Field Sampling Analysis Plan and Quality Assurance Project Plan for TM No. 13 activities

RPM	APPROVAL	STATUS:		
BY:			DATE:	
	Approved	Disapproved	Additional Information Required	

#### SAMPLING AND ANALYSIS PLAN WASTE DISPOSAL, INC. SUPERFUND SITE

		ANALYSES					
SAMPLING LOCATION	FREQUENCY	Aqueo	us Phase	Oily Phase			
LOCATION		EPA Method	Parameters	EPA Method	Parameters		
Extraction Wells	<ul> <li>One sample from the aqueous and/or oily phases<sup>(1)</sup> prior to pumping</li> <li>One sample per week from the aqueous and/or oily phases<sup>(1)</sup> or the first month of liquids extraction</li> <li>One sample per month from the aqueous and/or oily phases<sup>(1)</sup> after the first month of liquids extraction</li> <li>As needed to resolve disposal issues</li> </ul>	8260 418.1 8080 9045 7000	VOCs Oil & Grease PCBs pH Priority Metals	8260 8080 7000	VOCs PCBs Priority Metals		
Oil/Water Separator	Sample at startup only     As needed to resolve disposal issues	418.1 8080	Oil/Grease PCBs	8080	PCBs		
Effluent Storage Tanks:			-				
Aqueous Phase	<ul> <li>One composite sample per week for the first month of liquids extraction</li> <li>One composite sample per month after the first month of liquids extraction</li> <li>As necessary for disposal</li> </ul>	418.1 8260 8080 9045 7000	Oil/Grease VOC's PCBs pH Priority Metals	NA	NA		
Oily Phase	<ul> <li>One composite sample per week for the first month of liquids extraction</li> <li>One composite sample per month after the first month of liquids extraction</li> <li>As necessary for disposal</li> </ul>	NA	NA	8260 8270 8080 7000	VOCs SVOCs PCBs Priority Metals		

94-256/TMs/TM#13 (Rev. 1.0) (3/25/99/im)

NA = Not Applicable



<sup>(1)</sup> Oily phase sample will be collected if encountered in the extraction well and a sufficient volume can be collected, the order of analysis will be as follows: (1) PCBs; (2) VOCs; and (3) Priority Metals.

(2) Refer to Addendum 1 (Attachment C) for a complete description of Field Sampling Analysis Plan and Quality Assurance Project Plan.

### MATERIALS AND EQUIPMENT SPECIFICATIONS SUMMARY WASTE DISPOSAL, INC. SUPERFUND SITE

MATERIAL/EQUIPMENT DESCRIPTION	SPECIFICATION <sup>(1)</sup>			
Extraction System				
Air Compressor	Two-Stage Compressor (Model No. 4364K44) <sup>(2)</sup>			
Pressure Switch	PS-E Series (25 to 100 psi)			
Extraction Wells <sup>(3)</sup>				
Casing	4" Diameter, Schedule 40, PVC - Threaded			
Screen	0.02", Schedule 40, PVC - Threaded			
Filter Pack	1/4" Diameter Gravel			
Seal	Bentonite Pellets (1/4") and Bentonite Grout			
Pumping Equipment				
Pneumatic Pump	Hammerhead (Model No. H23SEB) or equal			
Monitoring Equipment				
Pump Cycle Counter	QED Pump Cycle Counter (Model No. 37000) or equal			
Air & Liquid Hoses/Piping				
Air Hose	1/4" (I.D.) x 1/2" (O.D.) (Working Pressure: 200 psi)			
Piping	1" and 2" Diameter, PVC, Schedule 40, Glued Joints			
Liquids Handling Components				
Oil/Water Separator	QED DP-8A (1 to 30 gpm) or equal			
Sump	Christy U32 Catch Basin (2' x 3' with 6" walls) or equal			
Sump Pump	Automatic Cast Iron Pump (1/4 HP Model)			
Carbon Absorption Drum	55-gallon Steel or Plastic Drum (200- to 350-pound capacity)			
Storage Tanks/Drums	55-gallon drum (steel), 3,000-gallon (Poly), 6,500-gallon (Poly) and 20,000-gallon (Steel)			
Level Switches	LS-800 Series or equal			
AutoDialer	Sensaphone 1108 or equal			

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(2) Size and make to be determined based on final design.

(3) Specifications for 10 new extraction wells only.

<sup>(1)</sup> Alternative equipment may be used pending availability and cost, but will be approved by the system designer to confirm equivalent specifications.

### EXAMPLE FIELD FORM WASTE DISPOSAL, INC. SUPERFUND SITE

INSPECTOR:	CHECKED BY:
DATE/TIME INSPECTED:	DATE:
EXTRACTION WELL METER READING (g  RW -1:	allons)/Liquid Level (ft bgs):  EX-1 LS#3 7-25'  EX-2: 5-25'  EX-4: Peagrau 10-20ft  PILT TTII-1: 10-15' peagravel  100 PB-2: PB-4: PB-6: PB-8:
LIQUID VOLUMES IN STORAGE CONTAINERS (gallons):	· EQUIPMENT CONDITION:
	<u>Comments</u>
BT-1 (treated water):  BT-2 (treated water):	
BT-3 (recovered oil):	Tanks Treatment Unit
COMMENTS/ADDITIONAL NOTES:	

94-256/TMs/TM#13 (Rev. 1.0) (3/23/99/jb)



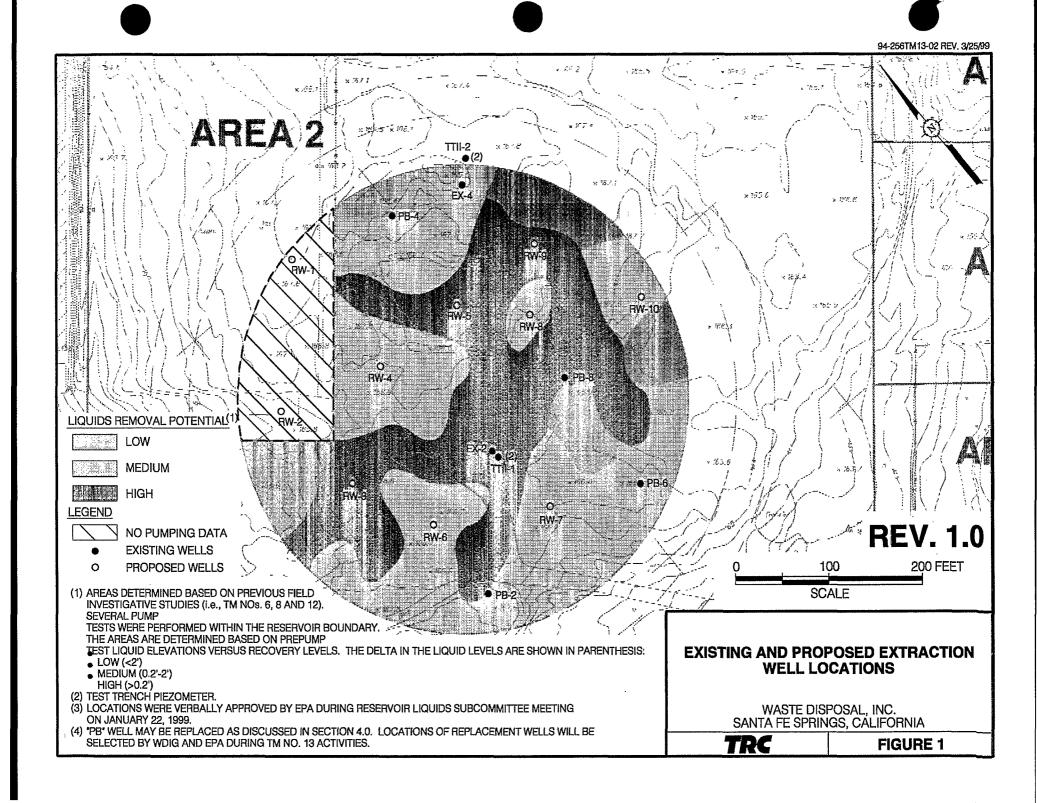
### PRELIMINARY DISPOSAL FACILITY IDENTIFICATION WASTE DISPOSAL, INC. SUPERFUND SITE

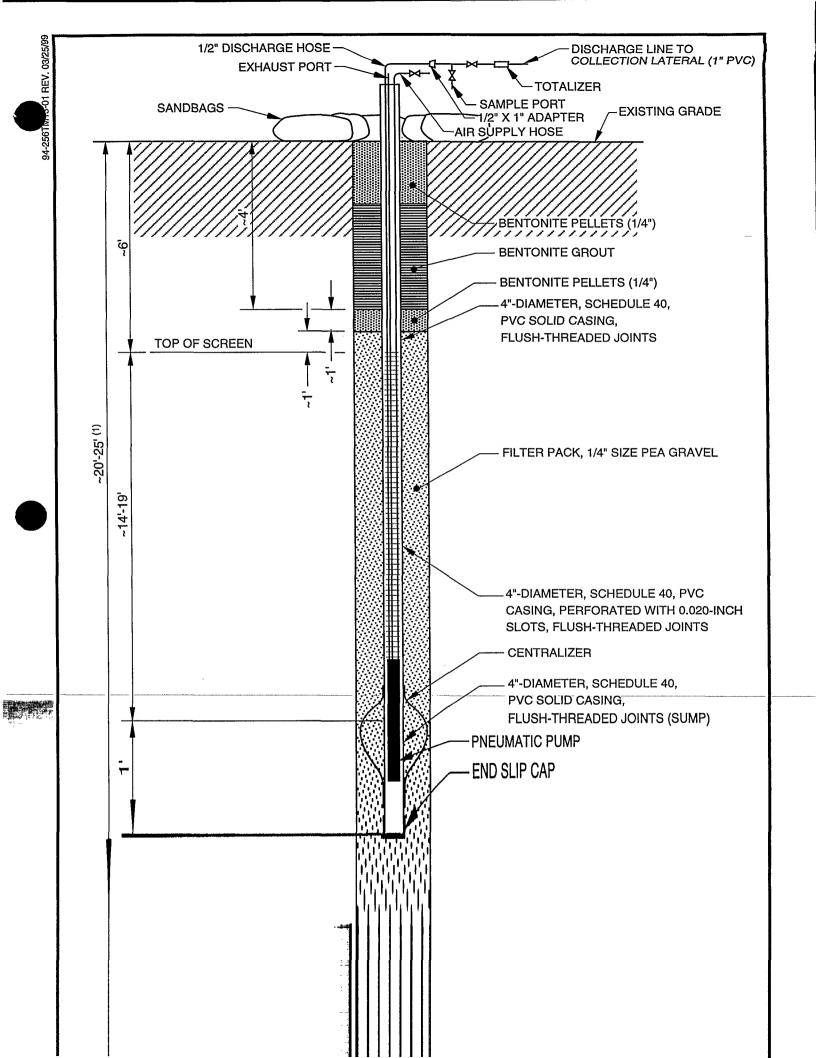
RESIDUAL	WASTE DISPOSAL <sup>(1)</sup>	PCB DISPOSAL CRITERIA
Nonhazardous Liquids	Crosby and Overton Long Beach, California EPA ID No. CAD 028 409 019	<10 ppb
Nonhazardous Oils/Emulsions	Waste Management, Inc. Azusa, California EPA ID No. CAD 008 302 903	<50 ppm
	Safety-Kleen Recycling Westmorland, California EPA ID No. CAD 000 633 164	<6 ppm
Hazardous Oils/Liquids	U.S. Ecology, Inc. Beatty, Nevada EPA ID No. NVT 3300100000	None <sup>(2)</sup>
	Salesco Systems Phoenix, Arizona EPA ID No. AZD 983473539	None <sup>(2)</sup>

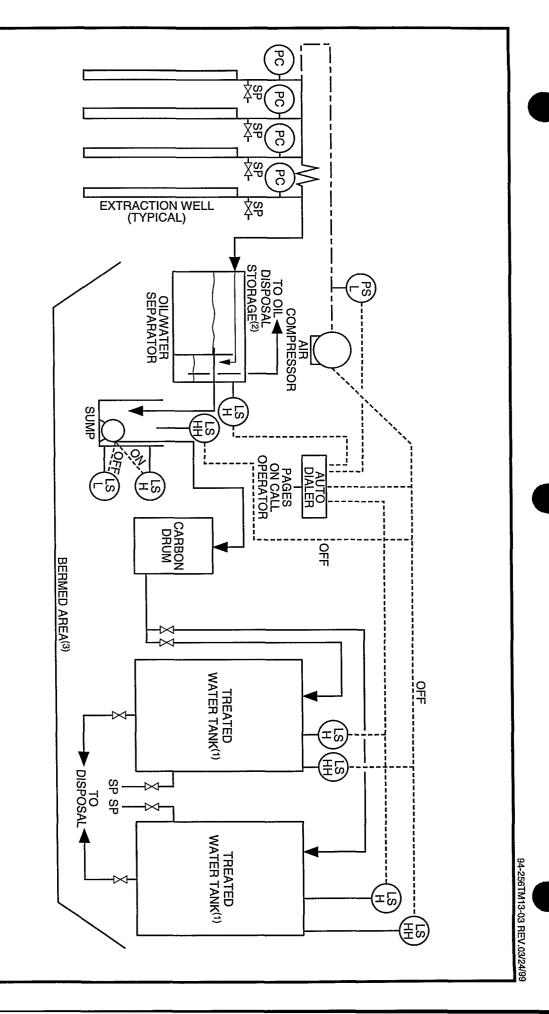
94-256/TMs/TM#13 (Rev. 1.0) (3/25/99/im)

ppb = parts per billion ppm = parts per million

- (1) Final disposal facility selection will be completed based on availability and the waste characteristics. EPA will be informed of any changes to the above list prior to disposal activities.
- (2) Disposal Facility will accept any PCB concentrations.







LEGEND

PC - PULSE COUNTER, OR TOTALIZER

PSL - PRESSURE SWITCH LOW

LSH - LEVEL SWITCH HIGH

LSHH - LEVEL SWITCH HIGH HIGH

LSL - LEVEL SWITCH LOW

SP - SAMPLE PORT

(1) TANK CAPACITY WILL DEPEND ON THE RECOVERY RATES OF THE EXTRACTION WELLS.
INITIALLY, A 20,000 GALLON BAKER TANK AND 6,000 GALLON BAKER TANK WILL BE USED
AT THE START-UP OF THE STUDY.
(2) RECOVERED OIL WILL EITHER BE STORED IN 55-GALLON DRUMS OR A 3,000-GALLON
BAKER TANK.

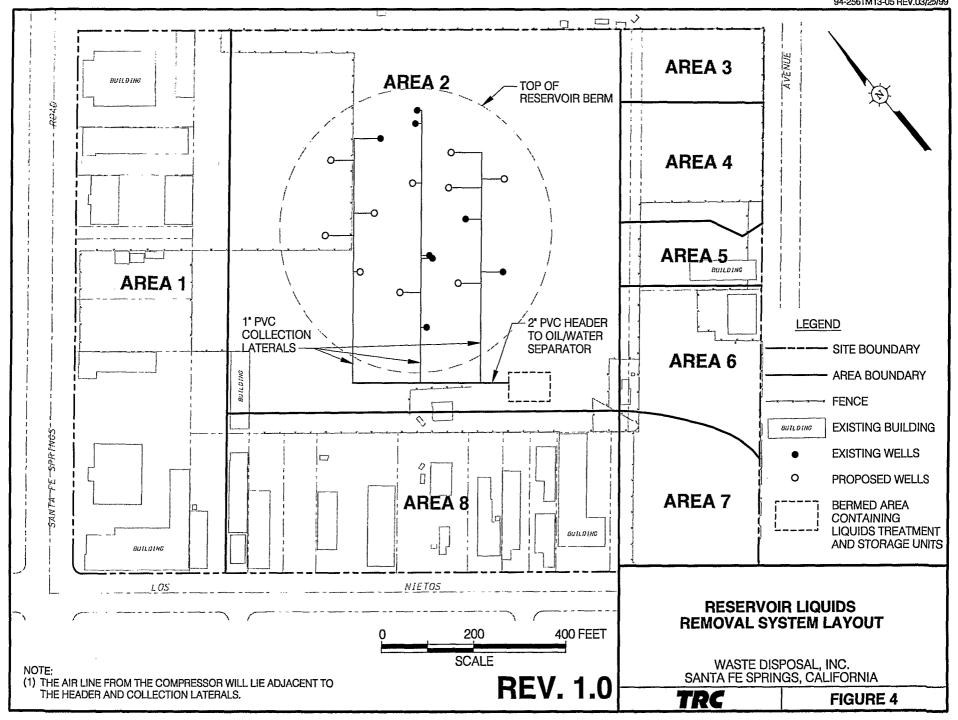
CONSTRUCTED WITH A HAYBAIL BERM (50' x 40' x 2') COVERED BY VISQUEEN

**REV. 1.0** 

SCHEMATIC OF RESERVOIR LIQUIDS REMOVAL SYSTEM

WASTE DISPOSAL, INC. SANTA FE SPRINGS, CALIFORNIA

FIGURE 3





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Response to EPA Comments/Approval																																																								
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Submit As-Built Report <sup>(1)</sup>																																																							$\prod$	

To Be Determined

(1) Schedule will be determined by length of system operation. The length of operating the system will be based on the sustainability of pumping and the chemical composition of the liquids being extracted from the reservoir.

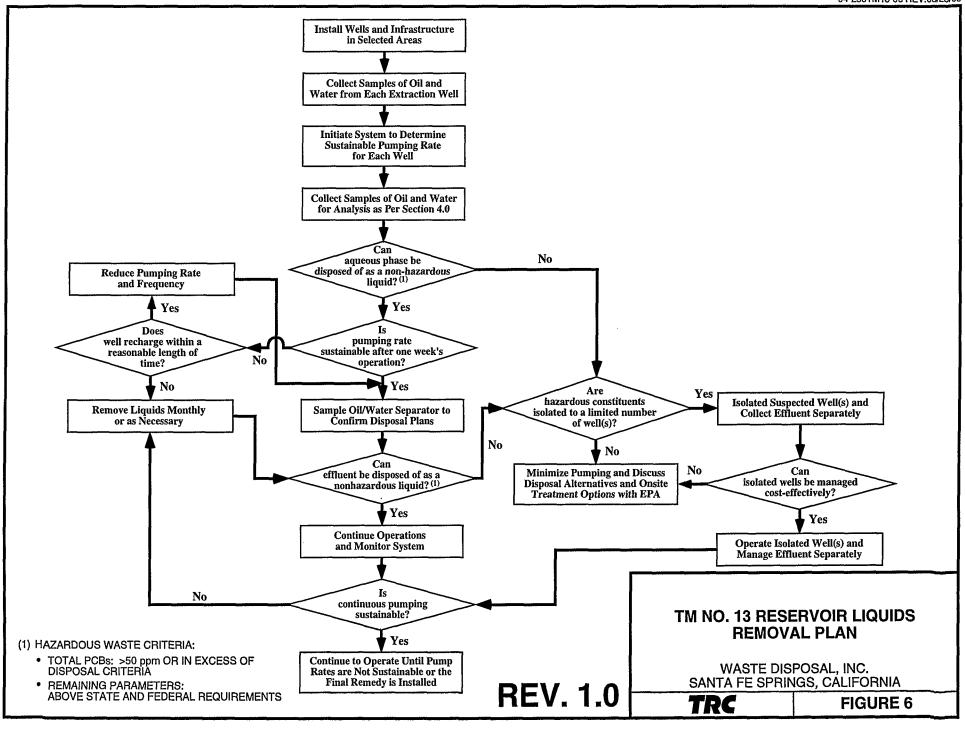
TM NO. 13 PROPOSED SCHEDULE

WASTE DISPOSAL, INC. SANTA FE SPRINGS, CALIFORNIA

**REV. 1.0** 

TRC

FIGURE 5



ATTACHMENT A



March 23, 1999

Mr. Glenn Androsko TRC 21 Technology Drive Irvine, CA 92618

#### Dear Glenn:

As requested Crosby and Overton's limititation on PCB's for Bulk liquid is 10 ppb (parts per billion). Because of this extremely low limit; the facility will not allow ANY PCB's liquids as bulk (tanker) for Waste Water Treatment. Should you have any questions or concerns please free to contact me or Larry Boyle (Compliance Manager) at Crosby and Overton.

Crosby and Overton, Inc. appreciates the opportunity to work with you and your company. We look forward to earning your business in the future.

Sincerely

Robert Ritte: Sales Dept.

### Crosby & Overton, Inc.

1610 W. 17th Street Long Beach, CA 90813 (562) 432-5445 Fax: (562) 495-2181

#### FAX TRANSMISSION COVER SHEET

	•	
Date:	3-9-99	
To:	Eric 5	Company: UUI
Fax:		
Re:	(909) 482-2272	
Sender:	Christine Tibbetts, Customer S	Service Representative
		(S), INCLUDING THIS COVER SHEET. IF E PAGES, PLEASE CALL (562) 432-5445.
Stre	id is!	
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Form Approved. OMB No. 2050-0028. Expires S-30-88.

GSA No. 0246-EPA-07

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X. Description of Hazardous Wastes (continued from front)

Non - RCRA Wastes (California Waste T.D. No.):

- 214 Unspecified Solvent Mixture
- 221 Waste Oil/Mixed Oil
- 223 Unspecified Oil Containing Mixture
- 331 Off-Specification, Aged or Surplus Organics
- 341 Organic Liquid (non-solvent) with Halogens
- 342 Organic Liquids
- 343 Unspecified Organic Liquid Mixture
- 451 Degreasing Sludge
- 461 Paint Sludge
- 541 Photochemicals/Photo Processing Wastes
- 741 Liquids with Halogenated Organic Compounds > 1000 Mg/L

#### XI. Certification

I cartify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature

Name and Official Title (type or print)

Date Signed

EPA Form 8700-12 (Rev. 11-85) Reverse

Please print or type in the unshaded areas only (fill—in areas are spaced for elite type, i.e., 12 characters)	ters (inch).		Form Approved OMB No.	196-116112
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E Does or will this facility treat, store, or d hazardous wastes? (FORM 3).	ispose of X X	F. Do you or will you municipal effluent be taining within one	inject at this facility industrial elow the lowermost stratum or aquarter mile of the well bo	or:
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XI. MAP		P		100 100 100 100 100 100 100 100 100 100
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water I	odies in the map area. See instructions	for precise requiremen		id sinclude all springs, rivers and other surface
XII. NA	TURE OF BUSINESS (provide a brief descrip	tion)		
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2.	Industrial & Marine Waste		_	
3.	Hazardous Waste/Material M	anagement Inclu	ding Emergency S	Spill Response and Both
	Emergency and Remedial Site	e Mitigation		
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#### KIII. CERTIFICATION (see instructions)

I certify, under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that based on my inquiry of those persons immediately responsible for obtaining the information contained in the application. The lieve that the information is true accurate and completes I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment.

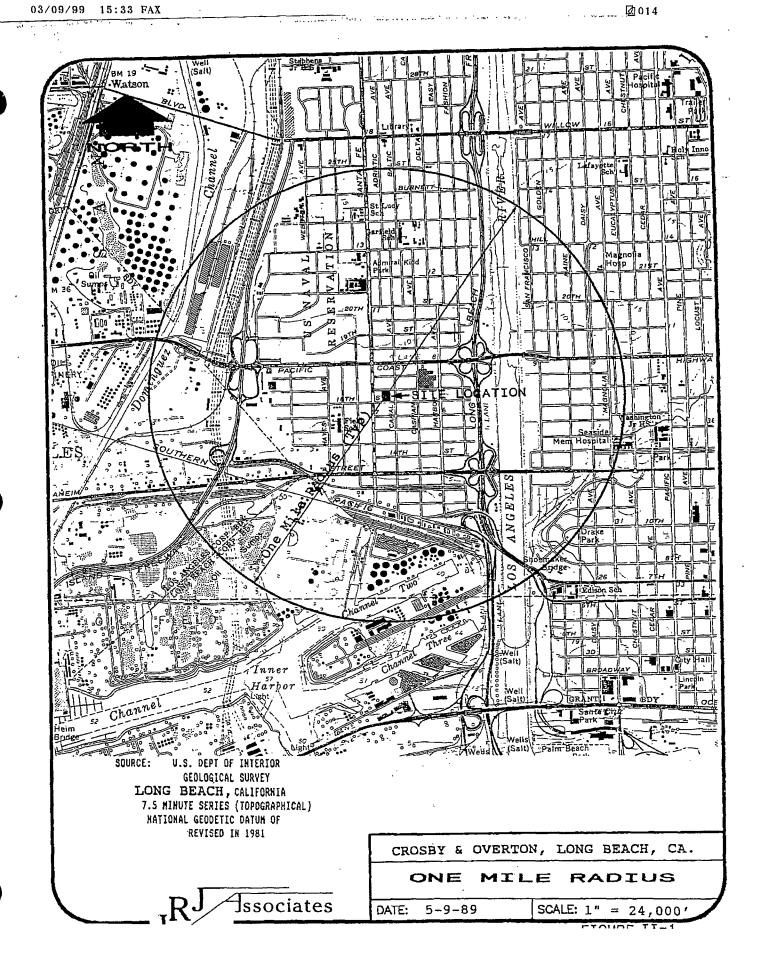
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B. SIGNATURE

C. DATE SIGNED

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45,833

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C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "TO4"), FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY. III. PROCESSES (continued)

T04 -Design Capacity Process Code TZI-Chemical Fixation 5,000 U 45,883 U T22 - Chemical Oxidation 45,883 U T37 - Coagulation 43,588 U T40 - Filtration 45,883 U T41 - Flocculation 45,883 U T42 - Flotation

> 3,422 U T45 - Thickening (sludge)

43,200 - 57,600 U T49 - Activated Carbon

10,000 U T50 - Blending

43,588 U T65 - Sand Filter

- IV. DESCRIPTION OF HAZARDOUS WASTES

  A. EPA HAZARDOUS WASTE NUMBER Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate

METRIC UNIT OF MEASURE ENGLISH UNIT OF MEASURE KILOGRAMS.....K 

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

#### D. PROCESSES

PROCESS CODES:
For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B.C. and D by estimating the total annual

quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.

2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter

'included with above" and make no other entries on that line.

3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

	A. EPA HAZARD.			D FCTILLED AND AND AND AND AND AND AND AND AND AN		UNIT	L	D. PROCESSES												
z o	W A (en	ST	EI	10	B, ESTIMATED ANNUAL QUANTITY OF WASTE	S	MEA URE Inter odej		1. PROCESS CODES 2. (enter) (if a										2. PROCESS DESCRIPTION (If a code is not entered in $D(1)$ )	
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X-2	D	0	0	2	400		P	T	' (	) 3	1	) )	8	0	1	1		1	1	
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X-4	D	0	0	2	2				1			1	7		i	Γ		1	Т	included with above

EPA Form 3510-3 (6-80)

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EPA Form 2510-2 (2-20)

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NOTE: Photocopy this page before completing if you have more than 25 wastes to list. Form Approved OMB No. 158-S80004 FOR OFFICIAL USE ONLY EFA I.D. NUMBER (enter from page 1) DUP DUP W 9 С 0 IV. DESCRIPTION OF HAZARDOUS WASTES (continued) D. PROCESSES M A. EPA
HAZARD.
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JZ (enter code) B. ESTIMATED ANNUAL QUANTITY OF WASTE SURE (enter code) 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) 1. PROCESS CODES (enter) - 29 27 36 29 27 S 0 1 S 0 2 TO 1 TO 4 Т 1 D O O 1 1,000 T 0 1 T 0 4 S 0 2 2 Т S 0 1 DOO 1,000 S 0 1 T 0 1 T 0 4 3 T S 0 1 D 0 0 3 1,000 Included with line 3.A.1 4 T 0 1 T 0 4 S 0 1 S 0 1 D 0 0 4 5 T 10 S 0 1 T 0 4 plolo 5 6 S 0 2 T 0 1 T 0 4 Included with line 3.A.1 S 0 1 D|0|0|6! 7 S 0 2 T 0 1 T 0 4 S 0 1 D 0 0 7 \*\* 11 11 11 8 S 0 2 T 0 1 T 0 4 D 0 0 8 S 0 1 9 11 11 11 11 plolol 9 S 0 1 S 0 2 T 0 1 T 0 4 11 10 11 11 11 S 0 1 S 0 2 T 0 1 T 0 4 D 0 1 0 11 11 \*\* 11 15 pl ol 1 S 0 1 S O 2 T O 1 T O 4 12 T O 4 Included with Line 3.A.5 D O S 0 1 1 31 13 11 11 D 0 1 3 T 0 4 S 0 1 14 11 11 11 11  $\mathbf{D}' = \mathbf{O}'$ 1 SOI T 0 4 tt tţ 15 11 11 T 0 4 p o S 0 1 li 5 11 \*\* !6 S 0 1 T 0 4 D 0 1 6 17 11 11 11 11 T 0 4 S 0 1 i 8 0. 0 0 d S 0 1 S 0 2 T 0 1 1,5000 İΤ T 0 4 T 0 4 S 0 1 Т 19 F 0 0 1 100 20 F 0 0 2 Included with Line 3.A.19 T 0 4 S 0 1 21 F 0 0 3 S 0 2 T 0 1 T 0 4 Included with Line 3.A.1 S 0 1 F 0 0 4 S 0 1 Included with Line 3.A.5 T 0 4 T 23 Flolo S 0 1 T 0 4 Included with Line 3.A.5 24 F 006 Included with Line 3.A.18 S 0 1 S 0 2 T 0 1 T 0 4 71 11 25 11 tt F 0 0 7 s o S 0 2 T 0 1 T 0 4 1 26 11 " 0,018 S T01T04 S O 0 2

Continued from page 2.

Form Approved OMB No. 158-S80004 NOTE: Photocopy this page before completing if you have more than 26 wastes to list. FOR OFFICIAL USE ONLY EPA I.D. NUMBER (enter from page 1) ŵ DUP DUP WCAD028410901 9 IV. DESCRIPTION OF HAZARDOUS WASTES (continued) D. PROCESSES C.UNIT OF MEA-SURE (enter code) A. EPA HAZARD. B. ESTIMATED ANNUAL QUANTITY OF WASTE WASTENO (enter code) 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) 1. PROCESS CODES (enter) - 25 27 T 0 1 T 0 4 S 0 1 S 0 2 Included with Line 3.A.18 Flolol9 2 S O 2 T O 1 T O 4 FO 0 3 11 \*\* 11 FO S 0 1 S 0 2 T 0 1 T 0 4 4 11 11 11 FIO11 2 S 0 1 S O 2 T O 1 T O 4 5 11 tt 11 F|0|1|9 S 0 1 S O 2 T O 1 T O 4 6 11 11 F 0 2 0 T 0 4 S 0 1 7 11 11 11 F 0 2 1 T 0 4 S 0 1 8 11 2 2 FO T 0 4 S 0 1 9 11 11 2 3 FO S 0 1 T 0 4 10 11 11 F 0 2 4 S 0 1 T 0 4 11 11 11 2 11 F 0 6 S 0 1 T 0 4 12 0 2 11 ſŧ F 11 S 0 1 T 0 4 11 17 13 F 0 2 8 S 0 1 T 0 4 14 K d d 17 Ŧf 11 1 S 0 1 T 0 4 15 ik o o 11 11 11 S 0 1 S 0 2 T 0 1 T 0 4 16 коов 11 11 17 S 0 1 S 0 2 T 0 1 T 0 4 K 0 0 4 13 11 S 0 1 S 0 2 T 0 1 T 0 4 18 K 0 0 5 11 17 \*\* S 0 1 S 0 2 T 0 1 T 0 4 19 K 10 10 16 S 0 1 S 0 2 T 0 1 T 0 4 \* \* 11 17 20 K 0 0 7 S 0 1 S 0 2 T 0 1 T 0 4 11 11 11 K 0 0 8 21 11 11 11 S 0 1 S 0 2 T 0 1 T 0 4 K 0 0 9 S 0 1 T 0 4 11 tt 11 K 0 1 0 23 " 11 11 S 0 1 T 0 4 K 0 1 1 24 17 17 S 0 1 T 0 4 7.5 K 0 1 2 S 0 1 T 0 4 Ĵΰ K 0 1 3 11 tt 7.5 S 0 1 Т 0 4

Continued from page 2. NOTE: Photocopy this page before completing if you have more than 25 wastes to list. Form Approved OMB No. 158-580004 FOR OFFICIAL USE ONLY EPA I.D. NUMBER (enter from page 1) DUP 1/9 DUP W C A D 0 2 8 9 0 W 4 b IV. DESCRIPTION OF HAZARDOUS WASTES (continued) C. UNIT OF MEA-SURE (enter cade) D. PROCESSES A. EPA HAZARD. WASTENO (enter code) B. ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES (enter) z. PROCESS DESCRIPTION (if a code is not entered in D(1)) 29 | 27 29 27 - 29 26 T 0 4 Included with Line 3.A.18 1 K 0 1 4 S 0 1 2 7.7 77 \*\* T 0 4 S 0 1 01 3 11 11 T 0 4 \* \* K 0 16 S 0 1 11 4 11 11 T 0 4 K 0 1 7 S 0 1 5 11 71 11 K 0 1 8 T 0 4 S 0 1 11 6 K 0 1 8 ft 77 T 0 4 S 0 1 7 ., 11 K 0 2 0 11 T 0 4 S 0 1 8 11 11 II. K 0 2 1 S 0 1 T 0 4 9 11 ff 11 KO 2 2 S 0 1 T 0 4 10 K|0|2|3 11 11 11 T 0 4 S 0 1 \* 1 11 \*\* 11 K 0 2 4 S 0 1 T 0 4 11 11 11 12 T 0 4 S 0 1 Klol9 i3 11 11 **F1** 13 S 0 1 T 0 4 K 0 9 4 14 11 11 11 S 0 1 T 0 4 K'Ol2 ì 5 K 0 2 6 11 11 T 0 4 S 0 1 :6 K 0 2 7 11 T 0 4 11 \*\* S 0 1 17 K 0 2 8 TE S 0 1 T 0 4 \*\* 11 K 0 2 9 18 11 S 0 1 T 0 4 11 11 19 K 0 9 5 \*\* S 0 1 T 0 4 K 0 9 6 20 77 S 0 1 T 0 4 21 K 0 3 0 11 11 11 S 0 1 T 0 4 K 0 8 3 22 " S 0 1 T 0 4 K 1 0 3 23 S 0 1 T 0 4 11 11 75 24 11 \*\* " K 1 0 4 S 0 1 T 0 4 25 11 11 k 이 8 5 S 0 1 T 0 4 K 1 0 5 26 S'0'1 T 0 4 11 11

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NOTE: Photocopy this page before completing if you have more than 26 wastes to list. Form Approved OMB No. 158-S80004 FOR OFFICIAL USE ONLY EFA I.D. NUMBER (enter from page 1) DUP D 0 2 8 W DUP WIC IV. DESCRIPTION OF HAZARDOUS WASTES (continued) A. EPA
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IZ (enter code) C. UNIT OF MEA-SURE (enter code) D. PROCESSES B. ESTIMATED ANNUAL QUANTITY OF WASTE 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) 1. PROCESS CODES (enter) 36 Included with Line 3.A.18 s o i T 0 4 K 0 4 4 11 11 2 T 0 4 K O 4 5 S 0 1 \*\* 11 11 11 3 T 0 4 S 0 2 T 0 1 K O 4 16 S 0 1 11 \*\* tt \*\* 4 S 0 2 T 0 1 T 0 4 κlo 4 7 S 0 I 5 11 11 11 11 7 T 0 4 K O 1 S 0 1 11 11 11 \*\* κlo 7 3 S 0 1 T 0 4 6 11 \*\* 11 13 7 K 1 0 6 S 0 1 T 0 4 K 0 4 8 11 11 11 8 S 0 1 S 0 2 T 0 1 T 0 4 9 K O 4 9 ۱t ti \*\* S 0 1 S 0 2 T 0 1 T 0 4 10 K 0 5 0 11 11 17 11 S 0 1 S 0 2 T 0 1 T 0 4 11 к¦ оі 5 1 11 11 11 11 T 0 1 T 0 4 S 0 1 S 0 2 12 K! 0 5 2 S 0 1 S 0 2 T 0 1 T 0 4 11 ı t 7 5 11 13 0 6 11 11 S 0 1 T 0 4 14 K! 0 6 2 S 0 1 T 0 4 Included with Line 3.A.1 15 Ki O 3 1 S 0 1 T 0 4 Included with Line 3.A.18 :6 K O 3 2 S 0 1 11 11 72 T 0 4 17 K: O 11 tt T 0 4 S 0 1 18 K O 3:4 S 0 1 T 0 4 57 11 11 \*\* 19 ol 9 7 11 17 tt \*\* S 0 1 T 0 4 20 K o 3 5 11 17 11 11 S 0 1 T 0 4 21 o 3 6 S 0 1 T 0 4 11 11 72 \*\* 22 K O 3 7 11 11 \*\* 17 S 0 1 T 0 4 23 K C 3 8 S 0 I T 0 4 11 17 11 TT 24 3 Q 9 ŧŦ 11 S 0 1 11 11 T 0 4 25 K 0 4 0 11 11 11 11 S 0 1 T 0 4 26 K 0 4 1 S 0 1 T 0 4 11 11 17 11 EPA Form 3510-3 (6-30)

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Form Approved OMB No. 158-S80004 NOTE: Photocopy this page before completing if you have more than 26 wastes to list FOR OFFICIAL USE ONLY EPA I.D. NUMBER (enter from page 1) DUP W DUP IV. DESCRIPTION OF HAZARDOUS WASTES (continued) A. EPA HAZARD. ZO WASTENO D. PROCESSES C. UNIT B. ESTIMATED ANNUAL QUANTITY OF WASTE SURE (enter code) 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) 1. PROCESS CODES (enter) - 29 27 28 27 - 29 Included with Line 3.A.18 T 0 4 SOI K 0 9 8 T 0 4 S 0 1 K 0 4 2 11 7 7 3 T 0 4 S 0 1 K 0 4 3 11 11 4 K 0 9 9 S 0 1 T 0 4 11 11 5 K 0 6 9 T 0 4 S 0 1 13 11 T 0 4 S 0 1 6 K:1 0 0 77 T 0 4 S 0 1 K 0 8 4 11 11 11 T 0 4 8 K 1 0 1 S 0 1 11 11 11 K 1 0 2 S 0 1 T 0 4 11 13 11 S 0 1 S 0 2 T 0 1 T 0 4 10 K 0 8 6 11 11 K 0 6 0 T 0 4 S 0 1 12 K 0 8 7 T 0 4 -21 S 0 1 13 U 0 0 2 S 0 1 S 0 2 T 0 1 T 0 4 Included with Line 3.A.1 14 U 1 2 3 S 0 1 S 0 2 T 0 1 T 0 4 Ħ (11 บ 1 3 4 S 0 1 S 0 2 T 0 1 T 0 4 \_\_\_\_ 16 U 0; 1; 9; S 0 1 S 0 2 T 0 1 T 0 4 Included with Line 3.A.5 17 U 1 6 0 S 0 1 S 0 2 T 0 1 T 0 4 Included with Line 3.A.3 :8 ?? P 0 3 0 S 0 1 S 0 2 T 0 1 T 0 4 19 U 2 3 9 S O 1 S O 2 T O 1 T O 4 Included with Line 3.A.1 20 S 0 1 S 0 2 T 0 1 T 0 4 Included with Line 3.A.2 21 U 2 2 0 S 0 1 | S 0 2 | T 0 1 | T 0 4 Included with Line 3.A.1 22 P 0 7 4 S 0 1 S 0 2 T 0 1 T 0 4 Included with Line 3.A.3 23 P 0 9 8 11 S 0 1 S 0 2 T 0 1 T 0 4 24 P 1 0 4 11 11 11 S 0 1 S 0 2 T 0 1 T 0 4 25 P 1 0 6 11 11 S 0 1 S 0 2 T 0 1 T 0 4 11 26 P 1 2 2 S 0 1 S 0 2 T 0 1 T 0 4 11

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Form Approved OMB No. 158-580004 NOTE: Photocopy this page before completing if you have more than 26 wastes to list FOR OFFICIAL USE ONLY EPA 1.D. NUMBER (enter from page I) DUP DUP W WC A D 0 2 8 4 0 9 0 1 IV. DESCRIPTION OF HAZARDOUS WASTES (continued) C.UNIT OF MEA-SURE (enter code) D. PROCESSES A. EPA HAZARD. WASTENO (enter code) B. ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES (enter) 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) 27 - 28 27 - 28 27 - 29 27 - 39 3.6 S 0 1 S 0 2 T 0 1 T 0 4 P 0 2 1 h Included with Line 3.A.3 2 Ъ 0 2 9 S O 1 S O 2 T O 1 T O 4 3 11 tt P 1 2 S 0 1 S 0 2 T 0 1 T 0 4 1 4 11 PO 1 3 S 0 2 T 0 1 T 0 4 11 11 S 0 1 5 2 ulo T 0 4 Included with Line 3.A.1 3 S 0 1 S 0 2 T 0 1 6 7 8 9 10 11 12 13 14 i5 :6 17 18 19 20 21 22 23 24 25 26 EPA Form 3510-3 (6-60) CONTINUE ON REVERS

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IV. DESCRIPTION OF HAZARI	DOUS WASTES (continue	CODES FROM ITEM	(1) ON PAGE 3	-	* . *		. : -
E. USE THIS SPACE TO LIST	ADDITIONAL PROCESS	CODESTRUMENT					-
Attachment A is	a list of addition	al waste codes.	All have p	cocess o	ode S	01.	
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V. FACILITY DRAWING  All existing facilities must include in			ility (see instruction	ns for more	detail l		
	the space provided on page of	a scale drawing of the file	mrty 1000 minus	10 / // Co		1000	60: E. G. C.
All existing facilities must inclu		ground-level) that clea	rly delineate all			· existing s	torage
treatment and disposal areas; ar	nd sites of future storage,	treatment or disposal at	eas (see instructi	ions for m	ore deta	; (), il).	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
VII. FACILITY GEOGRAPHIC						120 g . 11 . 1	化异化烷 蜘蛛体
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VIII. FACILITY OWNER	र प्रक्रियम् द्वा सम्भागः । भ						100
A. If the facility owner is also skip to Section IX below.	the facility operator as listed i	in Section VIII on Form 1,	"General Informa	tion", place	an "X" i	n the box to	o the left and
8. If the facility owner is not t	the facility operator as listed i	n Section VIII on Form 1,	complete the folia	owing items	:		
	1. NAME OF FACILITY'S	LEGAL OWNER			2. P	HONE NO.	(area code &
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3. STREET OR	P.O. BOX	4. CITY	OR TOWN		5. ST.	6. 2	EIP CODE
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F		G		40	41 42	47	
IX. OWNER CERTIFICATION	And the Control of the Print	Committee of the second	. <u> </u>			elginisk elgin	क्षत्र । अस्तराह
I certify under penalty of law th	nat I have personally exam	ined and am familiar w	ith the informat	ion submi	tted in ti	his and all	attached
documents, and that based on n	ny inquiry of those individ	duals immediately respo	nsible for obtain	ing the in	formatio	n, I believ	re that the
submitted information is true, a including the possibility of fine	ccurate, and complete. I a	nm aware that there are	significant penai	ties for su	bmitting	talse info	rmation,
mercaning are possibility of thie	one imprisonment.						

A. NAME (print or type)

B. SIGNATURE

C. DATE SIGNED

the manager happened at the companies

### X, OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)

9. SIGNATURE

C. DATE SIGNED

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# Appendix A

Hazar- dous waste No.	Chemical Abstracts No.	Substance
P023	107-20-0	Acetaldehyde, chloro-
P002	591-08-2	Acetamide, N-(aminothioxomethyl)-
P057	840-19-7	Aceternide, 2-fluoro-
P058	62-74-8	Acetic acid, fluoro-, sodium sait
P066	16752-77-5	Acetimidic sold, N-[(methylcarbamoyl)oxy] thio-, methyl ester
P002	591-08-2	1-Acetyl-2-thiouses
P003	107-02-8	Acrolein Aldicarb
P070 P004	115-06-3 309-00-2	Aldrin
P005	107-18-6	Allyl sloongi
POOR	20659-73-8	Aluminum phosphide (R,T)
P007	2753-95-4	5-(Aminomethyl)-3-isoxazolol
P008	504-24-5	4-aipha-Aminopyridine
P009	131-74-8	Ammonium picrate (A)
P119	7803-55-6	Ammonium vanadats
P010	7778-39-4	Arsenic scid
P012	1327-53-3	Arsenic oxide As <sub>2</sub>
P011	1303-28-2	Arsenic oxide As <sub>2</sub> O <sub>5</sub>
P011	1303-28-2	Amenic pentoxide
P012	1327-53-3	Arsenic trioxide
P038 P035	592-42-2 596-28-6	Arsine, diethyl-
P054	151-56-4	Arsonous dichlonds, phenyl- Aziridins
PO13	542-52-1	Barlum cyanide
P024	105-47-8	Benzenamine, 4-chloro-
P077	100-01-6	Benzenamine, 4-nitro-
P028	100-44-7	Benzene, (chipromethyi)-
P042	51-43-4	1,2-Benzenediol, 4-[1-hydroxy-2-(mathyl- amino]ethyl]-, (R)
P046	122-09-8	Benzeneethanamine, aipha.aipha-dimentyi
P014	108-98-5	Benzenathiol
P001	'81-81-2 100-44-7	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3- oxo-1-phenyloutyl)-, and sairs Benzyl chloride
PQ15	7440-41-7	Beryllium dust
P016	542-88-1	Bis (chloromethyl) ether
PQ17	598-31-2	Bromoacetone
P018	357-57-3	Brucina
P021	592-01-5	Calcium cyanida
P022	75-15-0	Carbon bisulfide
P022	75-15-0	Carbon disuifida
P095	75-44-5	Carbonic dichlorids
P023	107-20-0	Chloroacetaldehyde
P024 P029	106-47-8 544-92-3	p-Chioroaniline
P030		Copper cyanida  Cyanidas (soluble cyanida satts), not other wise specified
P031	460-19-5	Cyanogen
P033	506-77-4	Cyanogen chloride
P034	131-89-5	2-Cyclohexyl-4.6-dinitrophenol
P036	696-28-6	Dichlorophenylarsins
P037 P038	60-57-1	Dieldrin Diethylania
P038	692-42-2 311-45-5	Diethylarsine
P040	297-97-2	Diethyl-p-ntrophenyl phosphate
PC43	55-91-4	O.O-Diethyl O-pyrazinyl phosphorothicate Disopropyl fluorophosphate (DEP)
P004	309-00-2	1,4:5.8-Dimethanonaphthalens, 1,2:3,4,10,10-hexachloro-1,4,4a,5,8,8a-hex- shydro-, (1alpha,4alpha,4abeta,5alpha, Balpha,8abeta)-
P060	455-73-6	1,4:5.8-Dimethanonaphthalene, 1,2:3,4:10,10-hexachloro-1,4,4a,5.8,8a-hex- anydro-, (laipha,4ipha,4abeta,5beta, 8beta,8abeta)-
P037	60-57-1	2,7;3,6-Dimethanonaphth(2,3b)oxirana, 3,4,5,6,9,9-hexachioro-1a,2,2a,3,6,6a,7,7a- octahydro-, (1aalpha,2beiu,2aalpha,3bota,
P051	72-20-8	Sbota, Saalpha, 7beta, 7ealpha)- 2,7:3,6-Dimethanonaphth (2,3b) oxirane, oc- tahydro-, (1ealpha, 2beta, 2abeta, 3alpha, 6alpha, 6abeta, 7beta, 7ealpha,
P044	60-51-5	Dimethoats
P045	39195-18-4	3,3-Dimethyl-1-(mathylthio)-2-butanone, O- [[mathylaminojcarbonyl] oxime

Hazar-	Chamical	
dous	Abstracts	Substance
wasta	No.	•
No.		
1001	75-07-0	Acetaldehydia (I)
U034	75.87.8	Acetaldehyde, trichloro-
U187	62-44-2	Acetamide, N-(4-ethoxyphenyl)-
	53-96-3	Acetamide, N-9H-fluoren-2-yl-
U005		Acetic scid, ethyl exter (I)
U112		Acetic acid, lead salt
U144	301-04-2	ACRUS ACID, 1820 3000
U214		Acetic scid, trisillum (1 +) sait
U232	93-76-5	Acetic scid, (2,4,5,-inchlorophenoxy)-
U002	57-64-1	Acetone (I)
U003	75-05-8	Acetonitrile (I,T)
U004	98-86-2	Acetophenune
U005	53-95-3	2-Acetylaminotluorene
1006	75-36-5	Acetyl chloride (C,R,T)
U007	79-06-1	Acrytemids
UCOS	79-10-7	Acrylic acid (I)
1009	107-13-1	Acrylonitrile
U011	61-82-5	Amitrole
U012	62-53-3	Aniline (I,T)
U014	492-80-8	Auramine
	115-02-6	4
U015		Asigno(2) 31:3 4)overgio(1.2-alindois-4.7-
UG10	50-07-7	Azianine (2'.3':3.4)pyriolo(1.2-a]indole-4 7-dione.6-amino-8-[((aminocarponyiloay) methyl]-1,1a.2.8.82.8b-hexahydro-8a-
		methyri-1,18,28,52,89-пекалусто-84-
		methoxy-5-methyl-
U157	50-49-5	Benz[j]aceanthylene, 1,2-dihydro-3-metnyi
U016	225-51-4	3,4-Benzacridine
UQ17	98-87-3	Benzal chloride
U192	23950-58-5	Benzamide, 3,5-dichloro-N-(1,1-diethyl-2-
		propyriyi)-
U018	56-55-3	Benz(a)anthracens
U094	57-97-6	Benz(a)anthracene, 7,12-dimethyl-
1012	62-53-3	Benzenamine (I,T)
U014	492-80-8	Benzenamine, 4,4'-carbonimidoyibis[N N-
10049	3165-93-3	dimethyl- Benzenamine, 4-chloro-2-methyl-
10093	50-11-7	Benzensmine, N.N-dimethyl-4-(phenylazor-
	95-53-4	Benzenamina, 2-methyl-
U328 U353	100 10 0	Benzenamine, 4-methyl-
	106-49-0	Benzenamine, 4.4*-mathylanebis[2-chioro-
U158	101-14-4	
U222	636-21-5	Benzanamine, 2-membyl-5-nitro-
U181,	99-55-8	
0013	71-43-2	Benzene
U038	510-15-6	Benzoneacetic acid, 4-chloro-alpha-(4- chlorophenyi)-alpha-hydroxy, sthyl ester
U030	101-55-3	Benzana, 1-bromo-4-phenoxy-
UUSU	305-03-3	Benzenebutanoic acid, 4-[bls[2-
U035	303-03-0	chloroethyl)amino}-
UC37	108-90-7	
11221		
U028	117-81-7	havvi)) ester
U069	84-74-2	1 2 Renzenedicarboxylic scid, dibutyl serer
UDSS		1,2-Benzenadicarboxylic acid, diethyl exter
U102		1,2-Benzenedicarboxylic acid, dimetnyl
Ų, 102		este:
U107	117-84-0	
		ester
· 0070	95-50-1	
U071		Benzene, 1,3-dichloro-
U072		Benzane, 1,4-dichloro-
U060		Renzena, 1.1'-(2.2-dichloro-ethylidene)
		bis (4-chloro-
U017		Benzene, (dichloromethyl)-
U22	26471-62-5	
U235	1330-20-7	Benzene, dimethyl- (I,T)
U201		1,3-Benzenedioi
UIZ		
1305		Benzane, hexahydro- (i)
U220		
Unos		
U106		
U054		
U161		3 Benzene, nitro- (I,T)
Uta		5 Benzane, pentachloro-
Ute		
Ucz	98-09-	A Decretegational For pilipings forum

Hazar- nous waste No.	Chemical Abstracts No.	Substance	Hazar- dous waste No.	Chemical Abstracts . No.	Substance
P046	122-09-8	alpha, alpha-Donethylphenethylamine			Bertzenesulfonyi chloride (C.R)
P047	534-52-1	4.6-Dinitro-o-cresol and salts	UG2G	98-09-9	Benzene, 1,2,4.5-tetrachioro-
7048 P048	51-28-5	2.4-Dinitrophanol	U207	95-94-3	Benzene, 1,1'-(2,2,2-
2020	68-85-7	Dinoseb	UOSI	50-23-3	trichloroethylidene)bis[4-chloro-
P085	152-16-9	Diphosphoramide, octamethyl-	U247	72-43-5	Benzene, 1,1'-(2,2,2-trichloroethylidene
P039	298-04-4	Disulfoton	CE-47		metricxy-
P049	541-53-7	2,4-Dithiobluret	U023	98-07-7	Benzene, (trichloromethyl)- (C,R,T)
P050	115-29-7	Endosultan	U234	99-35-4	Benzene, 1,3,5-trinitro- (R,T)
P068	145-73-3	Endothal	U021	92-87-5	Benzidine
P051	72-20-8	Endrin	U202	181-07-2	1,2-Benzisothiszol-3-(2H)-one,1,1-dioxi
P042	51-43-4	Epinephrina			and saits
P101	107-12-0	Ethyl cyanide	U203	94-59-7	1,3-Benzodioxole, 5-(2-propenyi)- 1,3-Benzodioxole, 5-(1-propenyi)-
P054	151-56-4	Ethylensimine	U141	120-58-1 94-58-6	1,3-Benzodioxola, 5-propyl-
P097	52-85-7	Fampour	U090	189-55-9	- Benzo(rat) pentaphene
P058	7782-41-4	Fluorina	U064 U022	50-32-8	Benzo(a)pyrene
P057	640-19-7	Fluoroacetamide Fluoroacetic acid, sodium salt	U197	106-51-4	p-Benzoquinone
P058	62-74-8	Fulminic scid, mercury(2+)salt (A,T)	U023	98-07-7	Benzetrichleride (C,R,T)
P065	628-85-4 76-44-8	Heptachior	UQ85	1464-53-5	2.2'-Bioxirane (LT)
P059	757-58-4	Hexacthylteraphosphate	UC21	92-87-5	[1,1'-Biphenyi]-4,4'-dismine
P062	79-19-6	Hydrazinacarbothioamide	U073	B1-94-1	[1,1'-Biphenyi]-4,4'-dlamine, 3,3'-dich
P118 P068	60-34-4	Hydrazine, methyl-	U091	119-90-4	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimi
P063	74-90-5	Hydrocyanic acid	5251		cnxy-
P063	74-90-8	Hydrogen syanide	U095	119-03-7	[1,1'-Biphenyi]-4,4'-diamine, 3,3'-dim
P096	7803-51-2	Hydrogen phosphide	U027	39538-32-9	Bls (2-chloroisopropyl) ether
P064	624-83-9	Isocyanic acid, methyl exter	U024	111-91-1	Bis(2-chloromethoxy) ethane
P060	465-73-6	Isodrin	U028	117-81-7	Bis(2-ethylhexyl) phthalate
P007	2763-96-4	3(2H)-isoxazolone, 5-(ammomethyl)-	U225	75-25-2	Bromoform
P092	52-38-4	Mercury, (scetato-O)phenyl-	Uccao	101-55-3	4-Bromophenyi phenyi ather
P065	628-88-4	Mercury fulminate (R,T)	U128	87-68-3	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
P082	62-75-9	Methamine, N-methyl-N-nitroso-	, U172	924-16-3	1-Butanzmine, N-butyl-N-ntroso-
P016	542-88-1	Methane. oxybis(chloro-	U031	71-36-3	1-Butanol (I)
P112	509-14-8	Methane, tetranitro- (R)	U159	75-93-3	
P118	75-70-7	Methanethiol, trichtoro-	U160	1338-23-4	
P050	115-29-7	6.9-Methano-2.4.3-benzodioxathiepen,	U053	4170-30-3	Z-Butena)
		6,7,8,9,10,10-hexachloro-1.5,5a,6,9,9a-	U074	764-41-0	2-Butens, 1,4-dichioro- (I,T)
P059	75-44-8	hexahydro-, 3-oxide 4,7-Methano-1H-Indene, 1,4,5,6,7,8,8-hep- tachloro-3a,4,7,7a-tetrahydro-	U143	303-34-4	dihydroxy-2-(1-methoxyethyl)-3-methy
P066	16752-77-5	Methomyl			pyrrolizin-1-yi ester, [15-[1alpha(Z),7(2
P067	75-55-8				3R),7aalpha]]-
P068	60-34-4	Methyl hydrazine	1031	71-35-3	
P064	624-83-9		บ136	75-60-5	Cacodylic acid
P069	75-88-5		U032	13765-19-0	Calcium chromate
P071	298-00-0		U238	51-79-6	
P072	88-88-4		U178	615-53-2	
P073	13463-39-3		U097	79-44-7	
P073	13463-39-3		U114	1111-54-6	Carbamodithicic acid, 1,2-ethanedlylb
POTS	154-11-5		31000	7700	salts and esters
P076	10102-43-9		Ų062	2303-16-4	
P077	100-01-6		U215	6533-73-9	(2.3-dichloro-2-propenyi) ester Carbonic acid, dithalllum(1+) salt
P075	10102-44-0		U033	353-50-4	
P076 P078	10102-43-9		U156	79-22-1	
PO78 PO81	55-63-0		UOSS	353-50-4	
P082	52-75-9		U211	56-23-5	
PO84	4549-40-0		U034*	75-87-6	
P074	557-19-7		U035	305-03-3	
		•	U036	12789-03-6	
P085	152-16-9 20816-12-0		U025	494-03-1	
P087	20816-12-0		U037	108-90-7	Chlorobenzene
P087 P088	145-73-3		UQ39	59-50-7	p-Chioro-m-crasol
POSS	145755	7-Oxebicycio [2.2.1]heptane-2,3-dicarbox- ylic acid	£041	106-89-8	1-Chloro-2,3-epoxypropane
PQ89	56-38-2		U042	110-75-8	
P034	131-89-5		Li044	67-66-3	
P048	51-28-5	Phenol. 2.4-dinitro-	U046	107-30-2	Chioromethyl methyl ether
P047	1534-52-1	Phenol, 2-methyl-4,6-dinitro- and salts	, UG47	91-58-7	beta-Chioronaphthalene
P020	88-85-7		' U048	95-57-8	o-Chlorophenol
P009	131-74-B	Phenol, 2,4,6-trin:tro-, ammonium salt (R)	.0049	3165-93-3	
P092	62 38 4	Phenylmercury acetate	LO32	13765-19-0	Chromic acld, calcium salt
POR3	103-85-5		UOSO	218-01-9	
P094	298-02-2		1/051	8021-39-4	
	75-44-5		U052	1319-77-3	
P095	W000 C 1 0		U053	4170-30-3	
P095 P095	7803-51-2		U055	98-52-8	Cumana (6
	311-45-5	Phosphoric acid, diethyl 4-nitrophenyl este	and the second s		. **
P096		Phosphoric acid, diethyl 4-nitrophanyl este Phosphorodithloic acid, O.O-diethyl S-[2- (ethylthio)sthyl] ester	∐245 <b>U197</b>	. 505-68-3 105-51-4	Cyanogen bramide

# Appendix A

Hazar- dous waste	Chemical Abstracts	Substance
NO.	No.	,
P094	298-02-2	Phosphorodithiolo scid. O,O-diethyl S- [(ethylthio)methyl] ester
P044	60-51-5	Phosphorodithiole acid, O.O-dimethyl S[2- (methylamino)-2-oxoethyl) ester
P043	55-91-4	Phosphorofluoridic acid, bis(t-mathyl- ethyl) ester
P089	56-38-2	Phosphorothloic acid, O,O-diethyl O-(p-nitrophenyl) ester
P040	297-97-2	Phosphorothials acid, 0,0-diethyl 0-pyra- zinyl exter
P097	52-85-7	Phosphoromicle acid. 0-(4- ((dimemylamino)-sulfonyl)phenyl] 0,0- dimemyl ester
P071	298-00-0	Phosphorothioic scid, O.O-dimethyl O-(4-nivophenyl) estat
P110	78-00-2	Plumbane, tetrasthyl-
P098	151-50-8	Potassium cyanide
P099	506-61-6 118-06-3	Propanal, 2-methyl-2-(methylthio)-, D-
P070 P101	107-12-0	[(methylamino)carbonyl]oxeme Propananitrile
P027	542-76-7	Propagativille, 3-chloro-
P059	75-86-5	Propaneniuse, 2-hydroxy-2-meshyl-
P081	55-63-0	1,2,3-Propenetrial, trinitrate (R)
P017	598-31-2	2-Propunena, 1-bromo-
P102	107-19-7	Propanyl alcohol
P003	107-02-8	2-Propenal
P005	107-18-6	Z-Propen-1-ol
P057	75-55-8 591-08-2	1,2-Propylenimine
P102	591-08-2 504-24-5	2-Propyn-1-ol Pyridinamine
P075	'54-11-5	Pyridine, (S)-3-(1-methyl-2-pyrrolidinyl)-, and salts
P111	107-49-3	Pyrophosphoric acid, tetraethyl ester
P103	530-10-4	Selenourea
P104	506-64-9	Silver cyanide
P105 P106	26628-22-8 143-33-9	Sodium azide Sodium syanide
P103	1314-98-1	Strontium sulfide
P108	57-24-9	Strychnidin-10-one, and sairs
P018	357-57-3	Strychnidin-10-one, 2,3-dimethoxy-
P108	57-24-9	Strychnine and saits
P115	10031-59-1	Sulfuric acid, thallium(f) salt
P109 P110	3689-24-5 78-00-2	Tetraethyldithiopyrophosphats Tetraethyl lead
P111	107-49-3	
P112	509-14-8	Tetraniromethane (R)
P062	757-58-4	Tetrapnosphorio acid, hexaethyl ester
P113	1314-32-5	
P113 P114	1314-32-5 12039-52-0	
P114 P115	10031-59-1	
P109	3689-24-5	
PO45	39196-18-4	Thiotanox.
P049	541-53-7	
P014	108-98-5	
P116	79-19-6	
P026 P072	5344-52-1 66-88-4	
P093	103-85-5	
P123	8001-35-2	
P118	75-70-7	
P119	7803-55-6	Vanedic sold, ammonium salt
P120	1314-62-1	
P084	4549-40-0	
P001	81-81-2 557-21-1	

Hazar-	Chemical	
dous	Abstracts	Substance
waste No.	No.	
U056	110-82-7	Cyclohexane (I)
U057	108-94-1	Cyclonexanone (I)
U130	77-47-4	1,3-Cyclopentadiene_1,2,3,4.5,5-flexa-
U058	50-18-0	chloro- Cyclophosphamide
U240	194-75-7	2.4-D, sams and estera
U059	20830-81-3	Deunomycin
U060	72-54-8	000
U061	50-29-3	DOT Dialists
1,062 1,063	2303-16-4 53-70-3	Dibenz(s,h)anthracene
U064	189-55-9	Dibenzo[a,l]pyrene
U068	96-12-8	1,2-Dibramo-3-chloroproprine
D068		. Dibutyi phthalate
U070	95-50-1 541-73-1	o-Dichlorobenzena m-Dichlorobenzena
U072	106-46-7	p-Dichtorobenzane
LI073	91-94-1	3,3'-Dichlorobenzidine
U074	763	
U075	75-71-8	Dichlorodificommentans
U078	75-35-4	1,1-Dichlorosthylens
U079 U025	156-60-5 111-44-1	1,2-Dichloroethylene Dichloroethyl ether
U061	120-83-2	2,4-Dichlorophenol
U082	87-65-0	2,6-Dichlarophenal
U240	194-75-7	2.4-Dichlorophenoxyacetic acid, salts and esters
UOS3	78-87-5	1,2-Dichloropropane
U084	542-75-6	1,3-Dichlaropropens
U085	1464-53-5	1,2:3,4-Dispoxybutane (I,T)
U105 U086	123-91-1 1615-80-1	1,4-Destrylansoxids N,N-Diestrylhydrazins
U087	3288-58-2	O,O-Diethyl-S-methyl-dithlophosphate
8500	84-66-2	Diethyl phthalate
U089	56-53-1	Diethylatilbestrol
U090	94-68-6 119-90-4	Dihydrosatrole 3,3'-Dimethoxybenzidine
U091	124-40-3	Dimethylamine (I)
U093	60-11-7	Dimethylaminoszobenzene
U094	57-97-6	7,12-Dimetry/benz[a]anthracene
U095 U096	11 <del>9-9</del> 3-7 80-15-9	3.3'-Dimethylbenzidina alpha.alpha-Dimethylbenzylhydroperoxida
		(R)
U097 U098	7 <del>9-44-</del> 7 57-14-7	Dimethylcarbamoyl chloride 1,1-Dimethylhydraxine
D033	540-73-8	
U101	105-67-9	
U102	131-11-3	
U103	77-78-1	
U105 U106	121-14-2 606-20-2	
U107	117-84-0	
U108	123-91-1	1,4-Dioxene
U109	122-66-7	1,2-Diphenylhydrazine
U110	142 <del>-84-</del> 7 521-64-7	Dipropytamine (i) Di-n-propyinitrosamine
LXXX	75-07-0	
U174	55-18-5	Ethanamina, N-ethyl-N-nitroso-
U155	91-80-5	
U067	106-93-4	pyridinyl-N'-(2-thienylmethyl)- Ethane, 1,2-dibromo-
U076	75-34-3	
1077	107-06-2	Ethans, 1,2-dictrions-
U131	67-72-1 111-91-1	
		chicro-
U117	60-29-7	Ethans, 1,1-oxybis- (i)
. nos22	111-44-4 78-01-7	Ethane, 1,1'-oxybis[2-chloro-
U208		Ethans, penischloro- Ethans, 1,1,1,2-tetrachioro-
U209	79-34-5	Ethane, 1,1,2,2-tetrachloro-
U218	62,55.5	Ethanethicamida
U359		Ethanol, 2-ethoxy Ethane, 1,1,2-trichloro-
U173		Ethanol, 2.2'-(nitrosolmino)bis-
U004	98-86-2	Ethanons, 1-phenyl-
U043		Ethane, chloro-,
10042	110-75-8	Ethene, (2-chlorouthoxy)-

### APPENDIX A

### SHT 4 OF 6

Mastarcts   Abstracts   No.	and
No.   No.	and
U078	and
U079	and
U228 79-01-6 Ethere, trichloro U112 141-78-6 Ethyl acetate (I) U113 140-88-5 Ethyl acetate (I) U1238 51-79-6 Ethyl carbamate U338 510-15-6 Ethyl 4.4'-dichlorobenzilate U114 111-54-6 Ethyl enbis (dittlocarbamic acid), saits esters U067 107-09-2 Ethylene dichloride U359 110-80-5 Ethylene dichloride U115 75-21-8 Ethylene dichloride U116 96-45-7 Ethylene thioursa U117 60-29-7 Ethylene thioursa U117 60-29-7 Ethylene thioursa U118 97-63-2 Ethylidene dichloride U119 97-63-2 Ethylidene dichloride U119 62-50-0 Ethylimethanesullionate	and
U112 141-78-6 Ethyl acetate (I) U113 140-88-5 Ethyl acrylate (I) 1238 51-79-6 Ethyl acrylate (I) U114 111-54-6 Ethyl acrylate (I) U114 111-54-6 Ethyl achieve acetate LO67 106-83-4 Etylene dibromide LU77 107-05-2 Ethylene dibromide U359 110-80-5 Ethylene dibromothyl ether U115 75-21-3 Ethylene oxide (I,T) U116 96-45-7 Ethylene thiourea U117 60-29-7 Ethyl ether (I) U076 75-34-3 Ethylidene dichloride U118 97-63-2 Ethylidene dichloride U119 62-50-0 Ethyl methacrylate	and
U113	and
U038   510-15-6   Ethyl 4.4'-dichlorobenzilate     U114	and
U114 111-54-6 Ethylenebic (dittilocarbamic acid), salts estara U057 105-93-4 Etylene dibromide U057 110-60-5 Ethylene dibriomide U115 75-21-8 Ethylene diploci monoethyl ether U116 96-45-7 Ethylene biolograe U117 60-29-7 U076 75-34-3 Ethylidene dichioride U118 97-63-2 Ethyl methacrylate U119 62-50-0 Ethyl methacrylate Ethyl methacrylate Ethyl methacrylate	and
esters	
107-05-2   Ethylene dichloride	
U359 110-80-5 Ethylene glycol monoethyl ether U115 75-21-8 Ethylene xide (i,T) U116 96-45-7 Ethylene thiourea U117 60-29-7 Ethyl ether (i) U076 75-34-3 Ethylidene dichloride U118 97-63-2 Ethyl methacrylate U119 82-50-0 Ethylmethanesullonate	
U116 96-45-7 Ethylene thiourea U117 60-29-7 Ethyl ether (I) U076 75-34-3 Ethylidene dichloride U118 97-68-2 Ethylidene dichloride U119 82-50-0 Ethylmethanesullonate	
U117 60-29-7 Ethyl ether (l) U076 75-34-3 Ethylidene dichloride U118 97-63-2 Ethyl methacnylate U119 82-50-0 Ethylmethanesullonate	
U118 97-63-2 Ethyl methacrylate U119 82-50-0 Ethylmethanesullonate	
U119 62-50-0 Ethylmethanesulionate	
U120 205-44-0 Fluoranthena	
U122 50-00-0 Formudehyde U123 64-18-6 Formic acid (C,T)	
U124 110-00-9 Furan (I)	
U125 98-01-1 2-Furancerboxaldehyda (I)	
U147 108-31-6 2.5-Furandione U213 109-99-9 Furan, tetrahydro- (f)	
U125 98-01-1 Furtural (I)	
U124 110-00-9 Furturan (I) U206 18883-66-4 D-Glucopyranose, 2-debxy-2(3-methyl-	3-
nitrosoursido)-	_
U126 765-34-4 Glycidylaidehyda U183 70-25-7 Guanidina, N-methyl-N'-nitro-N-nitrosc	٠
U183 70-25-7 Guanidine, N-methyl-N*-nitro-N-nitrosc U127 18-74-1 Hexachlarobenzene	_
U128 87-58-3 Hexachtorobutadiens	
U129 56-88-9 Hexachlorocyclohaxane (gamma isom U130 77-47-4 Hexachlorocyclopentatione	iot)
U131 _ 67-72-1 Hexachloroethane	
U132 70-30-4 Hexachtorophens	
U243 1888-71-7 Hexachtoropropene U133 302-01-2 Hydrazine (R.T)	
U085 1615-80-1 Hydrazine, 1,2-diethyl-	
U098 57-14-7 Hydrazine, 1,1-dimethyl- U099 540-73-8 Hydrazine, 1,2-dimethyl-	
U109 122-56-7 Hydrazine, 1,2-diphenyl-	
U134 7564-39-3 Hydroftuoric scid (C,T) U134 7564-39-3 Hydrogen fluoride (C,T)	
U135 7783-06-4 Hydrogen sulfide	
U096 80-15-9 Hydroperoxide, 1-methyl-1-phenylathy	1- (A)
U135 75-60-5 Hydroxydimethylarsine oxide U116 96-45-7 2-Imidazolidinethione	
U137 193-39-5 Indeno[1,2,3-cd]pyrene	
U139 9004-56-4 iron dextran U190 85-44-9 1,3-isobenzoturandione	
U140 78-83-1 Isobutyl alcohol (I,T)	
U141 120-58-1 Isosafrole	
U142 143-50-0 Kapone U143 303-34-4 Lasiocarpine	
U144 301-04-2 Lend acctate	
U146 1335-32-6 Lead, bis(acetato-O)tetrahydroxytri-	
U145 7446-27-7 Lead phosphate U146 1335-32-6 Lead subscetate	
U129 58-89-9 Lindane	
U147 108-31-6 Maleic anhydride	
U148 123-33-1 Maleic hydrazide U149 109-77-3 Malenonitrile	
U150 148-82-3 Melphalan	
U151 7439-97-6 Mercury U152 126-98-7 Methacryfonitrile (I.T)	
U152 126-98-7 Methacryfonitrile (I,T) U092 124-40-3 Methanamine, N-methyl- (I)	
U029 74-83-9 Methane, bromo-	
U045 74-87-3 Methane, chloro-(I,T) U046 107-30-2 Methane, chloromethoxy-	
U058 74-95-3 Methane, dibromo-	
U080 75-09-2 Methane, dichloro- U075 75-71-8 Methane, dichlorodifiuoro-	
U075 75-71-8 Methane, dichlorodifluoro- U138 74-88-4 Methane, iodo-	
U119 62-50-0 Methanesultonic acid, ethyl sater	
U211 56-23-5 Methans, tetrachioro- U153 74-93-1 Methanathiol (I,T)	
U225 75-25-2 Methana, tribromo-	
U044 67-65-3 Methane, trichloro- U121 75-69-4 Methane, trichlorofiuoro-	
U123 64-18-6 Mathenole acid (C,T)	
U154 67-56-1 Methanol (I)	
U155 91-80-5 Mathapyrilene U142 143-50-0 1,3,4-Metheno-2H-cyclobuta[cd]penta	en-2-
one, 1,18,3,38,4,5,5,58,5b,6-decachlord tahydip-	
. —,,40	

### APPENDIX A

### SHT 50 F 6

Hazar- dous waste No.	Chemical Abstracts No.	Substance

Hazar-	Chemical	
auob Slesw	Abstracts	Substance
No.	Na.	
U247	72-43-5	Methoxychlor
U154	67-56-1	Methyl alcohol (I)
U029 U186	74-83-9 504-60-9	Methyl bromide 1-Methylbutadiene (I)
U045	74-87-3	Methyl chlorids (I,T)
U158	79-22-1	Methylchlomearbonate (I,T)
U226	71-55-6	Methylchloroform
U157 U158	56-49-5 101-14-4	3-Methylcholanthrene 4,4'-Methylensbis(2-chlorosniline)
UQ68	74-05-3	Methylene bromids
U080	75-09-2	Methylene chloride
U159 V160	78-93-3 1338-23-4	Methyl sthyl ketone (MEK)(I,T) Methyl sthyl ketone peroxide (F,T)
U138	74-88-4	Methyl lodide
U151	108-10-1	Meshyl isoburyl ketone (I)
U162 U163	80-62-8 70-25-7	Methyl methscrylase (I,T)  N-Methyl-N'-nitro-N-nitrosoguanidine
บาลา	105-10-1	4-Methyl-2-pentanona (I)
U164	56-04-2	Methytthiouracil
U010 U059	50-07-7 20530-81-3	Minomycin C 5,12-Naphthacenedions, (85-cis)-8-acetyl-
CA.SS	20000010	10-(/3-amino-2.3,6-trideoxy-alpha-L-lyxo-
		hexopyranosyljoxy]-7,8,9,10-letrahydro- 6,8,11-inhydroxy-1-methoxy-
U165	91-20-3	Naphthalene
U047	91-58-7	Naphthalana, 2-chioro-
U166	130-15-4 72-57-1	1.4-Naphthalenedione 2.7-Naphthalenedisullonic acid, 3.3'-[(3.3'-
U230	12-31-1	dimethyl-(1,1'-biphenyl)-4,4'diyl)]-bis (220)
		bis(5-amino-4-hydroxy)-, tetrasodium sait
U166 U167	130-15-4 134-32-7	1.4-Naphthoquinone alpha-Naphthylemine
U168	61-59-8	bets-Naphthylamine
0026	494-03-1	2-Naphthylamine, N,N'-bis(2-chloroethyl)-
U167 U168	134-32-7 91-59-8	1-Naphthylenamine 2-Naphthylenamine
U217	10102-45-1	Nitric acid, theilium(1+) sait
U169	98-85-3	Nitropenzana (I,T)
U170	100-02-7 79-46-9	p-Nitrophenol 2-Nitropropane (I,T)
U172	924-16-3	N-Nitrosodi-n-butylemins
U173	1116-54-7	N-Nitrosodiethandlamine
U174 U176	55-18-5 759-73-9	N-Nitrosodiathylamine N-Nitroso-N-ethylurea
U177	684-93-5	N-Nitraso-N-mathylures
U178	615-53-2	N-Nitroso-N-methylurethane
U179 U180	100-75-4 930-55-2	N-Nitrosopipendine N-Nitrosopyrralidine
U181	99-55-8	5-Nitro-o-toluidine
U193	1120-71-4	1.2-Oxathiolane, 2.2-dioxide
U058	50-18-0	2H-1,3,2-Oxazaphosphorin-2-amine, N,N- bls(2-chloroethyl)tetrahydro-, 2-oxide
U115	75-21-8	Oxirane (i,T)
U126 LID41	765-34-4 106-89-8	Oxiranecarboxyzidehydo Oxirane, (chloromethyl)-
U182	123-63-7	Paraidehyde
U183	608-93-5	Pertachiombenzene
U184 U185	76-01-7 82-68-8	Pentachiorosthane Pentachioronimobenzene (PCNS)
U242	87-86-5	Penuschiorophenoi
U186	504-50-9	1,3-Pentadiene (I)
U187 U186	62-44-2 108-95-2	Phenacetin Phenoi
U048	95-57-8	
U039	59-50-7	
U081 U082	120-83-2 87-65-0	• - • - • - • - • - • - • - • • • • • •
1089	56-53-1	Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis-
		,(E)-
U101 U052	105-67-9 1319-77-3	Phenol, 2,4-dimethyl- Phenol, methyl-
U132	70-30-4	Phenoi, 2,2'-methylenebis[3,4,6-trichloro-
U170	100-02-7	
U242 U212	87-86-5 58-90-2	
U230	95-94-4	Phenol, 2,4,5-trichloro-
U231	88-06-2	
U150	148-82-3	aminoj-
U145	7446-27-7	Phosphone acid, lead salt
U087	3288-58-2	Phosphorodithicic acid, O.O-disthyl-, S- methyl ester
U189	108-95-2	Phosphorus sulfide (R)
U190	· 85-44-9	•
U191 U179	109-06-8 100-75-4	
U192	23950-58-5	Pronamide
U194	107-10-8	1-Propanamine (I,T)

# APPENDIX A

## SHT GOF 6

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Hazar-	0:11	·
dous	Chemical Abstracts	Substance
WESTE	No.	
No.		
U110	142-84-7	1-Propanamine, N-propyl- (I)
U066	96-12-B	Propane, 1,2-dibromo-3-chloro-
U149	109-77-3	Propanedinitrile
U171	79-46-9	Propane, 2-nitro- (I,T)
U027	39638-32-9	Propane, 2.2'-oxybis[2-chloro-
U193	1120-71-4 126-72-7	1,3-Propane suitone 1-Propanol, 2,3-dibzomo-, phosphata (3:1)
U235 U140	78-83-1	1-Propanol, 2-methyl- (I,T)
U002	67-64-1	2-Propanone (I)
U084	542-75-6	1-Propane, 1,3-dichioro-
U152	126-98-7	2-Propanentrile, 2-methyl- (I,T)
U007	79-06-1	2-Propenamide
U243	1888-71-7	1-Propens, hexachloro-
0009	107-13-1	2-Propanenitrile
B00U	79-10-7 140-88-5	2-Propencie scid (I) 2-Propencie scid, ethyl aster (I)
U113 U118	97-63-2	2-Propendic scid. 2-mathyl-, ethyl ester
U162	80-66-2	2-Propenoic scid. 2-methyl-, methyl ester
Ultur	G0-03-E	(I,T)
U233	93-72-1	Propionic scid, 2-12,4,5-trichlorophenoxy)-
L*194	107-10-8	n-Propylemine (I,T)
U083	78-87-5	Propylene dichloride
U148	123-33-1	3.6-Pyndazinedions, 1,2-dihydro
U196	110-86-1	Pyridine  Dyidine 2-methids
U191 U237	109-06-8 66-75-1	Pyridine, 2-methyl- 2,4(1H,3H)-Pyrimidinedione, 5-(bis(2-
التكنا	00-13-1	chloroethyl)amino}-
U164	55-04-2	4-(1H)-Pyrimidinons, 2,3-dihydro-6-methyl-
		2-thioxo-
U180	930-55-2	Pyrralidine, 1-nitroso-
U200	50-55-5	Pesentine
U201 U202	103-46-3 81-07-2	Resortinol Saccharin and saits
U203	04-59-7	Safrole
U204	7783-00-8	Selenious sold
U204	7783-00-8	Selenium dioxide
U205	744 <del>5-34-</del> 6	Selenium sulfide (R.T)
U015	115-02-5	L-Serine, diazoacetate (ester)
U233	93-72-1	Silvex
U206	18883-66-4	Streptozotocin
U103	77-78-1 1314-80-3	Sulfuric acid, dimethyl ester
U189 U232	93-76-5	Sulfur phosphide (R) 2,4,5-T
U207	95-94-3	1,24,5-Tetrachlombenzene
U208	530-20-6	1,1,1,2-Tetrachloroethane
U209	79-34-5	1,1,2,2-Tetrachloroethane
U210	127-18-4	Tetrachlomethylene
U212	58-90-2	2,3,4.6-Tereschlorophenol
U213	109-99-9	Tatrahydrofuran (I)
U214 U215	15843-14-8 6533-73-9	Thallium(I) acetats Thallium(I) careonate
U216	7791-12-0	Thallium chloride
U217	10102-45-1	Thalium(I) nitrate
U218	82-55-5	Thioacetamide
U153	7 <del>4-93-</del> 1	Thiomethanol (I,T)
13244	137-26-8	Thioperoxydicarbonic diamide, tetramethyl-
U219	62-56-6 137-26-8	Thiourse
U244 U220	137-25-8 108-88-3	Thiuram Toluens
U221	25376-45-8	Toluanediamine
U223 U328	26471-62-5	Toluene diisocyanate (R,T)
U353	95-53-4 106-49-0	o-Toluidine p-Toluidine
U222	636-21-5	p-routidine o-Toluldine hydrochloride
U011	61-82-5	1H-1,2,4-Triazol-3-amine
U226	71-55-6	1,1,1-Trichloroethans
U227	79-00-5	1,1,2-Trichtoroethane
U22B	79-01-6	Trichtoroethytens
U121	75-69-4	Trichloromonofluoromethane
U230 U231	95-95-4 88-ns a	2.4.5-Trichlorophenot
U234	88-06-2 99-35-4	2,4,6-Trichlorophenol
U182	123-63-7	sym-Trinitrobenzene (R,T) 1.3,5-Trioxane, 2,4,6-trimethyl-
U235	125-72-7	Tris(2,3-dibromopropyl) phosphale
U235	72-57-1	
U237	66-75-1	Trypen blue Uracii mustard
U176	759-73-9	Urea, N-ethyl-N-nitroso-
U177	684-93-5	Urea, N-mathyl-N-nitroso-
UQ43	75-01-4	Virtyl chloride
U248	81-81-2	Warfarin, when present at concentrations
U239	1330-20-7	of 0.3% or less
U200	50-55-5	Xylans (I) Yohknban-16-carboxylic acid, 11,17-di-
-2.00	50.00.0	methoxy-18-[(3,4,5-trimethoxybenzoyi)
		oxy[-, methyl exter
U249	1314-84-7	Zinc phosphide, when present at con- centrations of 10% or less.
		· · · · · · · · · · · · · · · · · · ·



### CHEMICAL WASTE MANAGEMENT

### 107 SOUTH MOTOR, AZUSA, CA. 91702

FAX	Date: March 23, 1999  Number of pages including cover sheet:
Phone: Fax phone: 949-727-7399	From:  CINDY KIMMEL.  Phone: 626-815-2204  Fax phone: 626-969-8591
REMARKS: Urgent For your revies CHEMICAL WASTE MANAGEMENT AZUSA FA CONTAMINATED WASTE <50 PPM FROM A NO	CILITY IS APPROVED TO ACCEPT PCB

F-663

WWWW. Waste Management Inc.

Date 3-9-99

Number of pages including cover sheet 25

To:	) Vir	<u> </u>	•	From:	CINDY KIMMEL.
Ö	modela	Toda (0)	rete		AZUSA FACILITY
			_		107 SOUTH MOTOR
			<del>_</del>		AZUSA, CA. 91702
Phone				Phone	626-815-2204
Fax Phone	909-482	- 2272	<u> </u>	Fax Phone	626-334-4563
CC:					
MARKS:	☐ Urgent	☐ For	your review	☐ Reply ASA	P Please comment
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State

Zip Code

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3: 5: - - -: 2: 3. - 0: 0: 1:

### AL Nature of Business (Froviou a one) desenation)

Waste minagement services including solvent recycling services for a variety of members of the inquistrial community, uncluding the automotive, electronics, metal cleaning, packaging and pales inquistries. Colvent recycling operations are performed using Distribution and Thin Film Evaporation Units. Maste residues are transported off-site for transported off-site for transported off-site for transported. Lisbosal it use as supplemental fuels. As part of its modernization program. CMM-Azusa has approval to construct units to treat used oils, athylene glycological resides.

### XIL Process Codes and Design Cabacture

- A. PROCESS CODE Enter the code from the lest of process cudes delow that best describes each process to be take at the troubly. 
  Thirteen unes are provided for entering codes. If more lines are needed. Attains a separate sheet or other with the additional information. For 'other' processes tile... Odd. 539, TO\$ and 239), describe the process sincluding its design expectly in the space processes.
- B. PROCESS DESIGN CAPACITY For each code entered in column A. emer the capacity of the process.
- AMOUNT Enter the emount, in a case emery design capacity is not applicable (auch as in a goaline post-closure or emorphisms
  400011 Alter the lotal amount of waste for first process.
- "- UNIT OF MEASURE For each amount entered in commit d(1), enter the code from the list of unit measure codes below stat described the unit of measure used. Only the units of measure trust are used below should be vised.
- C. PUDCESS TOTAL NUMBER OF UNITS Enter the satel number of units used with the corresponding process code.

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Secondary ID Number (Emer from page ))

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### XIV. Description of mazzinous wastes

- EFA HAZERDOUS WASTE NUMBER Enter the rout-oxplicturation from 40 CFH, Part 251 Subtract 0 of electricities national grains /ou with handle. For national wrates which are not listed in 40 CFH, Part 261 Subtract 0, enter the four-client numbers i from 40 CFH, Part 261 Subtract 0 tricks reactions one characteristics and/or the toxic configurations of tricks reactions.
- ESTIMATED ANNUAL QUANTITY For each asted weste entered in column A estimate the quantity or that waste that wis permitted on an enhancement of estimate the formation quantity of all the non-instead wastes that will be annual quantity of all the non-instead wastes that will be annual quantity.
- C UNIT OF MEASURE For sean dimining entered in column 8 enter the unit of measure code. Little or measure enter finist pe used and the soproprists codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
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TONS	, <b>†</b>	METRIC TONS	м

T TACHINY RECOPULE LISE ANY OTHER UNIT OF INCASSIVE POR QUALITY. THE WHITE OF THE MASSIVE MUST OR CONTROLLED OF THE PROTECTION OF THE WASSIVE DESIGNATION OF THE PROTECTION OF THE WASSIVE.

#### I. FROCESSES

#### 1. PROCESS COMES

For taken naturolis wests: For each listed naturolis sesse entered in column A select the counts) from the list of process comes contained in term all A, on page 2 to maich now the mains whi be exceed, treasur, and/or disposed of at the select.

fer response fullivers where for some engineers de et texte contembrat enteres in column à. Salori die somme Rom The est et process color coloring in laws XII à. en page 3 la meletie du tre etrogénée mêt wil de Ulai de Ulai de Salori. L'am, and/ et sispess et su me hommines récuments warme duit gesome put charactérises et leing coloringment.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

- To Establish And two as overnoon endows.
- 2. Enter 100g" in the extense right has at norm KTV-D(1).
- 4. Enter in the space ordinated on page I, item XIV-E, the see number and the solutions codes).
- 2. PROCESS DESCRIPTION: If a code is not usted for a process that will be used, describe the process in the space previous on the form (U.CI).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE MUMBER • HAUBURING WARRING UND COT DE GENERALD DY THOSE WARD ONE OF A PRESENCE WHICH MUMBER WARD FROM DE GENERALD ON WIR DOWN DE DOMINE

- Select one or the EPA Hazardous weeks numbers and enter it in countril A. On the sector and continues doubles

  & Given by sectors of the state and descripting at the processes to be used to their sectors.

  In the sector of the sectors of the sector.
- 2. In constant A of the mast time enter the owner EPA Harmyone weeks extense visit cars on some to construct the waters. In constant CCI on that are enter "includes with apprex" and make the extent entered on that are.
- 2. Report sins 2 for mean EPA Hazarracky where Number stat can be usue to describe the nationalist when...

EXAMPLE FOR COMPLETING ITEM XIV (shown in fine numbers 4-1, X-2, X-3, and X-4 below) + A making will treat and distance of an estimate 900 pounds our year of chrome sharening from leader carring and finishing operation. It seed on, the sankly was arms and distance or turbe consumed whereas. The manual are constituted only and units will be an estimated 200 bounds for year of each terms. The error waste is constitute and springly and there are constituted 100 pounds per year of that waste. Traditions will be an expression and cuspees and the an a second.

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1 1 8	2.01118		1 :	Sioil	sicia	Tioli	
1 1 9	1 2 0 1:5		-	Stolt	S:: 2	Tion:	
210			-	151011	1512:2	TIOIL	
211	010121	2.000		SIOII	51012	Tioli	
212	1 3 11 21	700	-	SIGII	SICIZ	TIOII	
3   3	<u> </u>	1.000	<u> </u>	51011	51012	11011	
	0 0 2	1	1		51012	· · · · · · · · · · · · · · · · · · ·	
2   5			_		\$ 1012	+	··· <del>··································</del>
2   5					\$1372	7	
2 1				<del></del>	\$ : 2 : 2	_	<del></del>
21				SIGII	<del>_</del>	TIOI 1	
3   1		,	~ <del> </del>	2 0 1 1		<del></del>	<del>.</del>
3 1				51011		11011	
	S D 0 3.		<del></del>		S: 2: 2		
	D 013!		•		1 51 3 ; 2		

EPS Form 67(23-23 (Rev. 11-30-62) Provided Garage at Goodsett-

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391-1, 1-17: C. -- 01 01 (1 )

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IV. Desc	TREES to ACCERT	OUE WASTER (L'EGENERA)		01 01 11 1			
- EPA LETTMATERIC UNIT OF I			O. PROCESSES				
Une vumper :	MAZERDOUS MESTE NO. E-sur cooss	ANNUAL   MEASURE CUANTITY OF   Entir MASTE   COOK!		2) PROCESS DESCRIPTION .			
- :	3 , 3 ; 6	.oad -	S : 7 : 1   S 10 : 2   T : 7   1				
· 2 ‡	2 3:315	- paa.c.	s 10   12   T   2   1				
1 1 4	3 3:3 6	ood -	Isio il sio iz ITIOII				
14	2 013 7		SIOIL SIOIZ TIOIL				
: 5	3 3:318		SIDII SIDIZ TIOII				
: 6 (	0.319	-3.00d -	S 10 11 S 10 12 T 10 11				
' 7 1	3 01610		S :0   L   S   O   2   T   O   L				
1	2 , 4 ! 1		S:011 S;012 T1011				
= i		000	S . J . L   S : D   D   T   D   L				
1 3	1 3		1s:3 11s:0 21T:0111				
1   1	1 = 31011		S 10:1 S 10:2 T : 011				
112	1 = 01012		S 10 11 S 10 12 T 10 11				
1   3	1 5 0 0 1 3	35.00d -	SIGIL SIGIZ TIGIL				
1   4	7 7:0 4		SIOI SOZTOL				
115	50.015		SIOIL S   O   Z   T   O   L				
7   6	F.Diole		SIOII SIOIZ TIOII				
1 1 7		-000	S 10 1 S 10 12 T 0 1				
118	1 7:018		sioii sicia rioli				
1119	1						
2 1 0		200	SIDIL SIDIZ TIDIL				
2 1 1		1	Sigil Sigi2 Tigil				
2   2	1		SIQIL SIOI2 TIOI1				
3 1 3		9 .000 ~	\$1011 \$1012 T1011				
	5 7 0 2	1	Si0   Si0 2 T:0     Si0   S 0 2 T:0				
	F:0 3						
	7   7   7   3		SIGIL SIGIZ TIGIL				
	8 F 0131						
	* Froisi		S   O   L   S   O   2   T   O   L				
3 1			S1011 S1012 T1011				
	1 K:010		S 0 1 S 0 2 T 0 1				
-	z k.o.ai		SIQ11 SIQ12 TIQ11				
	3 K 2101			· · · · · · · · · · · · · · · · · · ·			

EPA Form 6700-22 (Rev. 11-30-63) Province course a occasion. GE 0E 7

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.. a. i. i. i. i. i. i. i.

EPA Form 4700-22 (Nov. 11-33-68) Province orange is generalis.

SPA LC. Number renter from sage to

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Secondary n) Humper season from eager st

891- 21--7-31-- 31 01 11

GV. Desc	THE TO ROTTE	OUR 17 861784 (C	ovenieni		Ā
1	- EPA	LESTRATED			<u> </u>
Line (	MAZARDOUS MASTEHO. Sourcesses	WASTE	YEASURE (	(1) PROCESS CODES (Enter toda) 2) PROCESS DESCRIPTION:-	<u> </u>
İ	<u> </u>	ן בים		51011 51312 7 211	
= 1	Enni	- 20	-	Is in it sloiz Trait	
3	א אי אן א	0C*	-	Is 10 li Is io iz IT: 2111	
• (	K or of 7	1 20	₹	Isiali Islalz T: 111	
2 (	K 0. 01 8	3 30	7	SIGIL SIGIZ TIDILL	
6	K 0' 01	: DO	:	S 10 11   S 10 12   T : 0 1 L	
i	K 0 11 (	1 : 20	-	S 10   L   S   10   2   T   2   L	
3	1	::0	-	SIJIL   SICIZ   TIDIL	
	1	.  ::0	: -	5   2   1   5   2   2   7   2	_
1 1 0	1 8 5 60	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED	1	S 10 11   S 10 12   T : ) [ ]	
1 1 1	K ni il	<1 :30	1 :	S 10 11   S 10 12   T 10   L	_
1 1 2	K: 0 1	61 = 70	=	S   0   1   S   0   2   T   0   1	_
1 1 3	Kali	7 300	Ţ	S 10   1   S 10   2   T 10   1	
110	K O I	8 300	1 -	siolisio ZT: 211	_
1   5			<u> </u>	Is to it Is to it I Troit	
116	K 0 2		-	SIGIL SIGIZITIOIII	
1 1 7			-	sigitsiolztioit	
1 1			1 =	Isio il stotz Tiolit	
1 .		31 .20	1 -	STOTE STOTE STOTE	
2 1		41 :00	1 =	SIOIL SIOIZ TIOIL	-
2 1		1 - 44		Sigil Sigiz Tigil	
21			<u> </u>	\$1011 S1012 T1011	
21	1 10 0 2		+ =	S   O   1   S   O   2   T   O   1	
3 1					-
	5 K 0 2		-		
	6 K 0 2		<del>                                     </del>	SIOIL SIOIZ TIOIL	
-	K 3 9		-	SIGIL   SIGIZ   TIGIL	
	X:0:9		1 :		
<b></b>	10 K 0:3	****	<del></del>	SIOIL SIOI2 TIOIL	
}	1 1 K . O 8			21 21 21 21 21	
<u> </u>	: z   K : 0	.,		S  0   1   S   0   2   T   0   1	
_	12 1 K : 0				

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문부A ED. Number renter som peue 11

SACRETURE IN HUMBER 1880ER FROM DAYS \$1

11 31 1 71 1 7 1 1

991-- 1:-- 7'31-- 01 01 11

1		ESTALLES!	WEASURE T				
Una lumper e	" 4STE NO	ANNUAL   CLANTITY OF   WASTE		(1) PROCESS GCOSS (Enter code) 2) PROCESS DESCRIPTION:- (7 8 8000 or not entered in (A1))			
	7 7 9:4	מכ:	<del>-</del>	Isia alsia iz Iriai il			
= 1	2 . 0 4	÷ 00	-	Isiair Isiaiz Tiolil			
3	x 2 7 1 1	5-30	=	SIOIL SIOIZ TIOIL			
4	K 2 7 3	300	1 -	S 10   1   S 10   2   T   0   1			
\$	K . 016	.:OQ	T =	S   3   1   S   C   2   T   3   1			
6	K 3 3 1 1	3.30	<b>.</b>	S 10 11 S 10 12 T 10 11			
	1 K 3 312	130	1 -	S :0 :1   S :3 : 2   T : 1 : 1			
5	1 K 7 3 3	1 ::0	] =	SI2     SI2   TI2   L			
	1 % - : -	1 .10		S S:_   T':			
1 1 9	16. 7.7	·	· ·	S   O   1   S   C   2   T   O   1			
7 1 7	1		-	S 10 11   S 10 12   T 10   1			
1   2		1 200	-	SIGIL SIGIZ TIGIL			
113	x alsli	500	-	S 10 11   S 10   2   T 10   1			
7 1 4	IK o ala	E 00	1 -	Isroit siniz Tloit			
1 1 5	K 7 3 10	1 500	1 :	Is to it Is to 12 Tioit			
110		±00	-	Stoil   Stoiz   Tiolli			
	1 K 7 4 1			Sigil Siglz Tigil			
-	K 5 9 18	1 20		SIGILSIGIZITOLI			
-	9   K () 4   3		-				
	0 K 2 4 12			SIGIL SIGIZ TIOIL			
	1 K o la la		<u> </u>	sigil sigiz Tiol I			
	2 K 0 14 18	V		SIGII SIGIZ TIGII			
	3 K 0 14 19			\$1011 \$1012 T1011			
	• K 2 5 10		1	\$1011   \$1012   T1011			
-	5 K '0 '5			\$10 1   \$10 2   T 0 1			
-	7 K .0 :6 1			Siall   Sial2   Tial			
	* K T 6 1			S   O   1   S   O   2   T   O   1			
	2 K 0 16		<del></del>	SIGIL SIGI2 TIGIL			
_	0 K . 0.1			SIGIL SIGIZ TIGIL			
_	1 8: 0 3/11			SIGIL SIGIZ TIQIL			
	: z [K = 0 ]			SIOI 1   SIOI 2   T: OI 1			
	: 3   K - 0			2 2 2 3 4			

EPA Form s703-53 (Rev. 11-30-63) Province married to common. 50 DE 7

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T-776 P.11/25 F-663

Secondary II.) Nullmore (enter trom toler II

CIV. Descript	CO OF REPRESENTA	YARRING (WOREHLES)

991- 3:--7:5:--01011

	- EPA	estrate (Car	<del></del>	a. PROC	ಜ್ಞಾ
Anumber :	HAZARDOUS ASTENO.	SULVITATION I	ASURE T	(1) PROCESS CODES (Enter cone)	2) PROCESS DESCRIPTION.:-
1	K 816	=-70	<u>-</u>  s	10 11   5 10 12   1 10 11	
=	K 3 6 10	י סכי	-   9	siolals lolz Tional	
3 (	K . 3 18 17	.aa	- (	sloit siol2 T:311	
4	K 1   1	∃ <b>30</b>	- 1:	sloit slolz Tiolt	
5	K . 1 12	E-30	-	S 10 11   S 10   2   T 10 11	
5	K . 1 13	3-30	7	S 10 11   S 10 12   T 10 11	
;	K . 1 14	300	- 1	\$ 10 11   \$ 10   2   T   3   1	
3	٠.5	1 20	:	\$ 10 11 \$ 10 12 7 211	
j	الا غ	l ::c	- 1	\$ 10 11 <b>  5</b> 10 12   <b>T</b> 111 1	
1 . 0	IK : 17	0.:	: 1	S 10 : 1   S 10   2   T : 21 .	
111	K _ 0 17	=30	7	\$ 10 11   \$ 10 12   T 1211	
1 1 2	K - 10 8	1 =no 1	•	\$ 10 11 5 10 12 T 10 11	
1   3	K : 10 19	300	<u>.</u>	S   0   1   S   0   2   T   0   1	
1 1 4	K - 1 10	= 30		sloli siolz tioli	
11:		1 300	<del>.</del>	sioils loiz triail	
110		500		151011 51012 71011	
11		500	-	sioli siola Tibit	
1 1		:30	-	lsiali sialz ziali	
-	9 K - 15	::3		Istoil Siorz Tioil	
-	0 K : 6 17	320	<del></del>	S 10 11 S 10 12 T 10 1 1	
	1 K 1 6 18		-	Sigli Siglz Tigit	
<del></del>	2 K 1 4 19		<u> </u>	SIGIL SIGIZ TION	
	3 K L 5 K		<u> </u>	\$1011 \$1012 T101	
-	4 K : 5 h			\$1011 \$1012 T101	
	s P o b		<u> </u>	5   0   1   S   0   2   T   0	
	F O O I		<u> </u>	SIGIL SIGIZ TIGI	
			=	SIGIL SIGIZ TIGI	
-	a trans	1		S 0 1   S 0 2   T 0	
	0 0 40	THE RESERVE THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON NAMED I	=	Sigil Sigi2 Tigi	
		7   220	-	\$   0   1   5   0   2   T   0	
	: 2 1 0 0		<u> </u>	SIGIL SI 01 2 T1 01	
	13 1 0 0		=	SIGIL SIGIZ TIOF	

EPA Form a realization. 11-10-621 Pronoun assume as consume.

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Southware to Humber rather from Odge ()

3 3 · - · - - 2 · 3 · - · 3 · 0 · 1 ·

TV. Description of residences weather (Continued)				2 3 T. S 01 01 11				
ļ	- EPA MAZARDOUS	ESTRUTEDY	C. UNIT OF I					
Line ( amper i		CLANTITY OFT WASTE		(1) PROCESS COSES (Enter sode)				
•	₹ î ii ol		-	S 1: 15 : 1 · 2   1 · 2   1				
2	7 2 1 1	72 <b>3</b>	-	sin : sio 12 Tipli				
134	E 0 1 2	223	-	sicus sour Tibil				
- 4	F 0. 1  3		-	sic   :   s   0   2   T   0   1				
5	3 A 1 6	300	-	S 12 12 S 10 12 T 10 1 1				
. 5	₹ 0 1 5	220	:	S 12 : 1 S 10 12 T 10 11				
:	₹ 0 L¹ 6	200	-	S   2   S   3   2   T   3   1				
\$	7 7 17 7	1	1 -	S1: 1 S.: 2 T:211				
7 1	7 : ! 3	122	1 -	5:   5 2   7 1 2				
. 61	<u> </u>	223	-					
111	9 0 Z: !	1 223	1 -	S				
112	⊋ 0 2 2 3	200	1 :	S13.1 S1012 T1911				
1   3	≥ 01 2  3	300	-	3 19 11 5 10 12 T 10 1 L				
114	⊋ 3′ Z1 4	220	Ī -	Is to 1 Is to 2 Tinit				
1   5	2 7 21 E	220	· :	Is 12 1 Is 10 12 Trioil				
115	2 0:21	7 200	-	S   3   1   S   9   2   T   9   1				
117	7 0:218	200	=	S : n : 1   S : 0   2   T i o i 1				
118	2 7: 21	9 223	1 :	ls 10:1 spoiz Tioil				
119	{ ? ) 3: (	وعت إه	1 -					
3 1 0	1 2 3 31	1 200	<del>-</del>	Is to tals to tal Tiotal				
2 1 1	Praisi	4 700	1 -	SIGIL SIGIZ TIGIL				
212	B 01 31	6 7mm	<u> </u>	SIGIL SIGIZ TIOII				
3   3			1 -	SIGIL SIGIZ TIGIL				
	P 01 31		-	SIDIL SIDIZ TIDIL				
2   5	5.0131	200	-	SIOIL SIOI2 TIOIL				
2 1 6	B. 01 41	200	=	SIGIL SIGIZ TIOII				
2 1 7			7	S:011 S1012 T1011				
2 1 8			:	Sicil Sicil Troil				
2 1 9			=	SIGIL SIGIZ TIGIL				
310			=	S; OIL SIOIZ TIOIL				
31				\$10:1 \$10:2 T10:1				
	2 2 0 41		1 -	SIO  1   S: 0! 2   T! 0  1				
3 1 2	2 P 0: 4:	71 100	=	SIOI1  SIOI2  T: 011				

EPA Form 6700-22 (Rev. 11-30-62) Previous operation comments. 56 02 7

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POSSESSED IO HUMBER SERVER HOME DAME 31

3 9: - :: - 7: S: - - 01 01 11 1

AV. Desentition or Hazardo	US TYRETON INCOMENSATION		-		7, 0, 1, 0, 2,
HAZARDOUS	MAZA CINALIA			O. PROCE	ESES
1 11 1	CLANTITY OF EIGHT COORS		(1) PROCESS CODES (Enter coop)		2) PROCESS DESCRIPTION
A   A	=======================================	15:0:1	S 10 12	71711	
Z   D 4   0	220   7	151011	siolz	riolil	
13 P 12 15 10.	200 7		s 10   2	riciil	
4 P 0 15 11	200 =		sio 2	Ilcia	
15 P C 15 4	200   7	<del></del>	S 10 12	TIBLE	
, 6 P 2 15 17	200 7	\$ 10 11	51012	1:211	
17 9 2 15 18	200 -	5 10 11	\$ 10 12	T:313	
3 17 5 19	229   7	15 10 11	S 10 12	r:: :	
5 P 2 0 1		S : 3 · 1	S : 1 + 2	I.	
1.012 3121	_=== ; <del>;</del>	S ; 2 : I	\$ ; 0 : 2	T:: .	
111 2 - 10 14	230	5 10 11	51012	1:0:1	
112 2 10 15	200 -	sigli	51012	T:011	· · · · · · · · · · · · · · · · · · ·
1 3 7 0 6 6	200   -	3 10 11	\$1012	T:011	
114 0 6 17	200 -	sioii	siolz	roil	
115 p 0 6 B	200   1	SIOII	sialz	1:011	
1 6 P 0 6 9	300 T	51011	slalz	T:011	
117 P 0 17 0	300 +	sinlı	5 0 2	ronil	
1   4   P   0   17   1	200 -	Isiqii	siola	T:oi1	
1 1 9 P 7 12	200 ; -	stoli	51012	11.0.1	
210 P C -7 13	200 2	51011	51012	11.011	
211 P 10 17 4	700 7	SIOII	sioiz	TIOIL	
212 8 0 17 5	200 7	51011	5   0   2	TIQIL	
2 3 P '0 17 17	200 -	SIGII	51012		
2 4 p 9 8 2	200 -	SIOIL		T:QIL	
2   5   P 0   8   6	290 7	Sloli	15   0   2	11011	
2   6   P · O   8   S	200 1	sioli			1-
217 P 2 18 17	200 =	51011			
218 6 3 :8 18	200   7	SIOIL	<del>_</del>		
2 1 9 P 5 18 19	300   7	31011			
310 9 2 :9 2		\$10 1			
3 1 P 70 19 3	200 -	\$1011		TIOIL	
3 1 2   P 12 19   4	200 7	51011	·	TI OI L	
313 12 2 19 17	1 200   7	[21017	151013	2   7: 01 1	

EPA Form 6703-23 (Rev. 11-30-63) Provide commit is necessite.

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Sectional in Million, (Europe, 1994)

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XIV. Description of restandous wastes (Continued)			-nanueai					
Line	HAZARDOUS   MASTE NO.	icstantes e Launna Poptitinaue	MEASURE T	(1) PROCESS CODES (Emmr code) 2) PROCESS DESCRIPTION				
UTDOY V	Enter cooks	HASTE	1 10000	1 .4 8 BOOM IS NOT EXTERNE IN O(11)				
- 1	5 3 8	::	-	S 10 11 S 10 12 T 10 11				
2	ä j è ò	100	:	SOIL SIO 12 TOIL				
3 (	P : 011	220	-	siolisiois Tloii				
. 4	P 1 012	200	1 :	Is to It Is to iz Tiol I				
5	P 313	220	-	S 10 11   S 10 12   T 10   1				
. 6	P : 314	1 220	:	S 10   1   S 10   2   T   0   1				
7	P - 015	220	<del>-</del>	S 10 :: S 10 12 T 10 1 L				
1	12 7 6	123	-	S 10 : 1   S . 7 : 2   T 1 9 : 1				
ÿ	IP . ; ;	123		Si2 1 S 2 T1011				
: a	1?3	1 -23	i :	S 10   1   S 10   2   T 10   1				
1:1	P - 119	1 223	-	S   O   1   S   O   2   T   O   1				
1 1 2	P 10	1 200	-	S 10 11 S 10 12 T; 0 1 1				
113	19	230	1	S 10 11 S 10 12 T 10 11				
1   4	10. , 1,	200	-	Isloit sinlz Tiolt				
1 i s	1 . 1 .	200	-	SIOIL SIOIZ TIQLI				
116	10. 11	200	Ŧ	SIOIL SIOIZ TIOIL				
117	ا ا	200	-	Siou Siolz Tiolu				
111	يا، وا	200	-	Sioil Siolz Tiol 1				
119	10 18	120	7	S 10   1   S ; 3   2   T   9   1				
Z ! (	) P :	200	1 -	S   O   2   S   O   2   T   O   1				
21.	1   2   1   2   (	700	1 -	SIOI1 SIOI2 TIOI1				
2 1 :	2 2 2 1	200	-	SIGIL SIGIZ TIOIL				
-	3 P 1 2 1		-	Stoll Stol2 Tiol I				
	4 P : 21		-	SIGIL SIGI2 TIGIL				
	s   U:0.0	200	<del>  -</del>	SIOII SIOIZ TIOII				
2 i	6 U.O.O!	2 200	:	Sigil Sigil Tioil				
2 1	7 0 0 0 1	3 200	7.	S 10: 1 S 1012 T 1011				
2 1	* U 2 01	2 120	-	SIG! I SIG! Z TIO! I				
-	9 0 3.01		=	510:1 S10:2 T10:1				
3 1			-	SIOIL SIOIZ TOIL				
3			-	SIGIL SIGIZ TOIL				
_	2 0 2.01		-	S10:1 S10:2 T10:1				
3 1	3   U 2 . Q	9   220	1 7	SIOIL SIOI2 TIOIL				

EPA Form 6700-23 (Rev. 11-30-63) Provided embers in commiss. 39 05 7

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T-776 P.15/25 F-663

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89. -- , -- T' 81 -- 91 01 11

1	בתמשמה כן אפנים. ביים בביים ליים ליים ליים ליים ליים ליים	LESTRUTEDI		2. PROCESSES
Line :	MAZARDOUS   MASTENO.   Empt coost		YEASURE : Same Same	
	11 11 110	775	<del>-</del>	S 10 11   S 10 12   T 17 . 1
	ひの1111	200	-,	sin li slolz rinil
13	u oil 2	20 <b>0</b>	. <del>.</del>	sioli siola Tiarri
. 4	U .3 11 14	200	-	siali siolz Tiali
5	ប c : L 15	200	-	S 10 11 S 10 12 T 12 11
! 6	U 0 11 16	205	=	S 10 11 S 10 12 T 10 11
7	U 5 .1 17	200	-	S 10 11 S 10 12 T 1 1 1 1
3	11 ! 8	מפנ	-	S 10 11 S 10 12 T: 2:2
5	IU - : 9	1 223	, -	S 12 !     S
1 : Q	٥, ت ت ت ا	021	į ÷	S 10   L   S 13   2   T   2   -
1 1 1	U 0 ,2  1	200	=	S 10 11 S 10 12 T; 2 : 1
112	11 11 12 12	200	1 :	S 10   L   S 10   2   T 10   L
1   3	U 0 2 13	200	1 7	\$ 10   1   5   0   2   T   9   1
1   4	U 0 :2 !6	zgg	<del>-</del>	Sioli Siolz Till
1   5	प ० .2 15	200	-	Sioil Stoiz Tibil
1 6	U 0 12 16	200	Ţ	SIOIL SIOIZ TIDII
1   7	U 0 12 17	200	-	Siolt Stolz Tibit
1   6	, , , , , , , , , , , , , , , , , , , ,	290	-	SIOII SIOI2 TIDIII
1 : 9		200	i :	Isiolisioiziriaii
\$ 1 0		220	1	S 10 11   S 10 12   T 1 2 1 1 1
2 1	10 10 13 11	200	+	3 10 11 S 10 12 T 10 11
212	u o 13 12	200	7	SIGIL SIGIZ TIGIL
2 1 :	***		-	SIGIL SIGI2 TIGIL
	U 0  3  4		-	SIOII SIOIZ TIDIL
	s u ·a 13 ls		T	SIQII SIQIZ TIQII
	6 U '0 13 16		:	Sioli Siolz Tioli
	7 0 3 13 17	-	:	SIGIL SIGIZ T: 311
-	* (U C :3 18			\$1011 \$1012 T1011
	9 U 0 13 19	1 200	-	SIG11 SIG12 T1011
	0 0 14 1		1 =	Stoll Stolz T: 011
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EFA Form 8700-23 (Res. 11-30-03). Providing equation in Commission

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l	i. EPA	LESTALTED!		2. PROCES	SES
Line Lines	HAZARDOUS HASTE NO. THEIR COCK!	AMMUAL XIANTITY OF WASTE	MEASURE 1 (Enter		2) PROCESS DESCRIPTION If a commute more enders at O(1))
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: 6 1	0 0 15 10	100	-	S 10   L   S 10   2   T 10   L	
7	U 0:5:1	120	-	SICILS:012 TIOIL	
;	U 3 5 · 2	220	:	S   O   E   S   O   E   T   O   E	
7	(U) 5 3	1 253	-	Si_:: S . 2 T:: -	
1 ( 0	3 . 5 د تا ا	-23			
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31			====	SIOII SIOIZ TIOII	
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i	+ EPA HAZARDGUS	S. ESTRATECT				a. PROCES	252
Ine	MASTENO. Enter cooper	CHANTEY DE	VEASURE (		55 CCC55 (Er	iter code:	21 PROCESS DESCRIPTION :
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EPA Formarios di illera 11-30400 Previous commune commune o j of 7

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IV. Desc	שמת בינו זה המסמה						
Line	HAZARDOUS	ESTRATEDI ANNUAL LLNTITY OFI WASTE	C. UNIT OF I MEASURE T (CREF 2000)	(1) PROCESS C	COSES (En	D. PROCE	CT PROCESS DESCRIPTION: (If a tops is not ensure in C(1))
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EPA Form 6700-23 (Figs. 11-33-63) Province equate is executed.

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T-776 P.19/25 F-663 Sectional and Minimal Section Section 11

+ EPA   3. ESTRIATEDI C. UNIT OF I				I PROCE	25E5		
TIUM .	MAZAROOUS WASTENO. Enter commi	ANNUAL : V XIANITIT DET WASTE	(EASURE T	(1) PROCESS	i CCSES (Eni	ar codi	27 PROCESS DESCRIPTION Y & GOOD IN NOT AN APPRICA OF (1)
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CPA Form 6700-23 (Nov. 61-30-03) Prevents auson as encores. 61 of 7

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V. Descri	בסחבובא ום תפעם		~		•				
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EPA Form 6700-22 (Nov. 11-30-62) Province session in consiste. | ÓS. O.E. 7

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7V. D==	march or natural	7.8 Y #410# (L	=nanyeai		21 - 4 0 11				
EPA A ESTRATEDI C. UNIT OF I			C. SHIT OF I	D. PROCESSES					
Line umper s	MASTENO.	ANNUAL PO YTTINAUC TO YTTINAUC STEAM	HEASURE    En <b>ar</b>   coge:	(1) PROCESS CODES (Enter code)	(7) PROCESS DESCRIPTION:				
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3	U 2 2 2 0	_220	7	SOISOIZTIOI					
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17	U.2:215	1 200	-	SIQII SIQIZ TIQII					
8	U 2 2 16	1 220	=	S 10 11 S 10 12 T 10 1 1					
	U 2 2;7	1 223-	:	S 10   1   S   J   2   T   7   1					
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EPA Form 6703-23 (Rev. 11-30-63) Province makes & Committee.

SOCIETATIVE IO NUMBER (EATER WORK BASE ))

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	- EPA HAZARDOUS	न स्थाप्तास्य		D. PROCESSES
Line Number	1	AMPRIAL CLEANITY OF WASTE	HEASURE (Enter (code)	(1) PROCESS CODES (Enter code) 2) PROCESS DESCRIPTION (IT & come is not entered in OCI)
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EPA Form 8700-23 (Res., 11-30-62) Privides commit di commit.

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3 1 20 40 21 21 21 31 31 31 31 31

Secondary (O Number (Enter from Mgm 1)

391--21--7:5:-40(0:1)

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LIV. DES	כחביבה זו המצצהים	Nasice (C	GURUMONI				
	A. EPA HAZARDOUS	ANNUAL	G. SMIT OF			O. PROC	:255E\$
Humbers	MASTENO.	WASTE	(Enser	(1) PROCE	25 CODE5 (Er	itat coder	(11) PROCESS DESCRIPTION (11)
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POCOGRESSIA 10 HOLLOCK IQUIN LINUX LINUX ON CO. 11

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6	U 3 18 14	200	T	S 10   1 S   0   2 T : 0   1
17	U 3  8  5	200	7	S   0   1   S   0   2   T   0   1
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XV. Map

Attach to this application a topographic map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must snow the outline or the facility, the location of each of its existing and proposed intake and discharge Structures, each of its nazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, fivers and other surface water bodies in this map area. See instructions for practice requirements.

XVI. Facility Drawing

All existing facilities must include a scale drawing of the facility (see instructions for more detail).

XVII. Photographs

All existing facilities must include photographs (sensi of ground-level) that clearly delineate ell existing structures: existing storage. treatment and disposal eress: and sites of future storage, treatment of disposal ereas (see instructions for more patall).

XVIII. Certification(s)

I ceruty under penalty of law that this document and all attachments were propered under my direction or aupervision in accordance with a system designed to assure that qualified personner properly gather and evaluate the information automatic d. Sased on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the Information, the Information Submitted is, to the best of my knowledge and Dallef, true, accurate, and complete, I am aware that there are significant penalties for submitting talse information, including the possibility of line and impresonment for knowing violations.

Owner signature	DM / July	ww	Date Signed 5/29/96
Preme and Official Title (Type of prem)	Dave McConnell, Presid	_	
Owner Signature			Date Signed
Name and Ottobal Title (Type or print)			
Operator Signature	M Jonus	•	Date 5-gree 5/29/96
Name and Official Tale (Type or print)	Dave McConnell, Presid	ent, Oil & Solve:	
Operator aignature			Pare Signes
Name and Oricial Title (Type or print)			
XIX. Comments			·
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	**	•	
Note: Mail completed form to th	e appropriate EPA Regional or Sta	te Ottice. (Refer to instruct	lans for mare information)

EPA Form 6700-23 (Rev. 11-30-93). Previous edition is adsorbe. - - 7 of 7 -

## US Ecology, Inc.

An American Ecology Company

### **FAX COVER SHEET**

Number of Pages: 9

TO: Eric

FROM: Dana Sullivan

Customer Service Manager Beatty Operations US Ecology
P.O. Box 578
Beatty, NV 89003
(775) 553-2203 ext. 109

(800) 239-3943 (775) 553-2125 FAX

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Remarks:	☐ For yo	ur review	Per your re	equest $\square$	Urgent	☐ Please comment
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US ECOLOGY - BEATTY, NEVADA AUDIT PACKAGE

#### FEDERAL PART B APPROVAL

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX

Name of Permittee: U.S. Ecology EPA ID Number: NVT330010000

Facility Location: Nye County, Nevada

#### Authorized Activities:

Pursuant to the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA) of 1976, and the -Hazardous and Solid Waste Amendments (HSWA) of 1984, (42 USC \$6901 et. seq.), and regulations promulgated thereunder by the United States Environmental Protection Agency (U.S. EPA) (codified in Title 40 of the Code of Federal Regulations) Federal permit conditions of the RCRA Fermit are issued to U.S. Ecology (herein called the Permittee) located in Nye County, Nevada.

The RCRA Fermit contains both the effective federal permit conditions (contained herein) and the effective state permit conditions (hereinafter called the state permit) issued by the State of Nevada pursuant to the RCRA program authorized under 40 CFR Fart 271. When both these permit conditions and the state permit are effective, the Férmittee has an effective RCRA Fermit which authorizes the Fermittee to conduct hazardous waste management activities as specified in the RCRA Fermit.

#### Permit Approval

The State of Nevada has received final authorization pursuant to Section 3006 of RCRA (40 CFR regulations codified in Part 271) to administer the pre-HSWA RCRA hazardous waste program. Since the State of Nevada has not yet received authorization to administer the new hazardous waste porgram requirements of HSWA, additional permit conditions must be issued by the U.S. EPA, to address these new requirements.

These additional conditions are contained herein. The Permittee must comply with all conditions contained herein (including those in any attachments) and the applicable regulations contained in 40 CFR Parts 260, 261, 264, 266, 268, 270, and 124, and of Section 206, 212, and 224 of HSWA, which require corrective action for all releases of hazardous wastes or constituents from any solid waste management unit at a treatment, storage, or disposal facility seeking a permit, regardless of the time at which waste was placed in such unit. Section 212 provides the authority to review and modify the permit at any time.

Permit No. NEV HW002
Page No. -2- of 2

These conditions are based on the assumption that the information submitted in the permit application attached to the Permittee's letter dated May 27, 1987, and any subsequent amendments submitted January 11, 1988 (hereinafter referred to as the Application) are accurate. Non compliance by the Permittee with any conditions of this permit, including failure to submit relevant facts required by this permit, and misrepresentation of any relevant facts at any time, are causes for permit termination (40 CFR \$270.43).

The Fermittee must inform U.S. EFA of any deviation from or changes in the information in the application. The RCRA Permit is effective when both these permit conditions and the State permit are effective. The effective date of this permit is thirty (30) calendar days after the notice of decision has been received, and remain in effect for five years until the RCRA permit is revoked and reissued, or terminated (40 CFR \$270.41 and \$270.42 and \$270.43) or continued in accordance with 40 CFR \$270.41.

JEFF GELYKSON, Director

Toxics and Waste Management Division

6-17-80

Date

US ECOLOGY - BEATTY, NEVADA AUDIT PACKAGE

#### STATE PART B APPROVAL

P.06

STATE OF NEVADA BOB MILLER Governor



Waste Management Corrective Actions Federal Facilities Facsimile 885-0868

Air Quality Water Quality Planning Facsimile 687-6396

L.H. DODGION, Administrator 1702) 587-4670 TDD 687-4678

Administration Mining Regulation and Reclamation Water Pollution Control

Facsimile 687-5856

PETER G. MORROS. Director

DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

#### DIVISION OF ENVIRONMENTAL PROTECTION

333 W. Nye Lane, Room 138 Carson City, Nevada 89706-0866

April 17, 1997

US ECOLOGY APR 2 1 1997 BEATTY, NV

Mr. Zaki Naser Facility Manager US Ecology P.O. Box 578 Beatty, NV 89003

RE: FINAL HAZARDOUS WASTE PERMIT FOR US ECOLOGY, BEATTY, NEVADA

PERMIT NO. NEV HW0011, EPA ID #NVT330010000

Dear Mr. Naser:

Please find enclosed the final RCRA hazardous waste permit for hazardous waste treatment, storage and disposal at the US Ecology, Beatty Facility. This permit is effective April 9, 1997 through April 9, 2002.

If you have any questions, please contact me at (702) 687-4670, extension 3004.

Jeffrey C. Denison, P.E.

RCRA Facilities Branch Supervisor

Bureau of Waste Management

JCD:gf

Enclosure

Mitch Kaplan, EPA IX (WST-5) w/ Enclosure cc:

US ECOLOGY - BEATTY, NEVADA AUDIT PACKAGE

**CELL TSCA (PCB) PERMIT** 



#### . United States environmental protection agency

RECION IX

75 Hawthorne Street San Francisco, CA 94105-3901

JAH 18 1995

Mr. Jack E. Lemley Chief Executive Officer U.S. Ecology, Inc. 5333 Westheimer, Suite 1000 Houston, TX 77056

Re: Renewal of Approval to Operate a Chemical Waste Landfill for PCB Disposal EPA ID NVT 3300100000

Dear Mr. Lemley:

This letter, with enclosed conditions, serves as written approval to renew, pursuant to Section 6 (e) (1) of the Toxic Substances Control Act (TSCA) of 1976 (Public Law No. 94-469) and the Federal PCB Regulation 40 CFR Parts 761.60, 761.65, and 761.75; U. S. Ecology's authority to operate a chemical waste storage and landfill for PCB disposal.

As required by Section 6 (e) (1) of TSCA, the Environmental Protection Agency (EPA), Region IX has determined that your application has satisfied the requirements set forth in 40 CFR Parts 761.60, 761.65 and 761.75. This determination is based on our review of your application and conclusion that operation of the U. S. Ecology, Inc. chemical waste storage and landfill facility located on Highway 95, 11 miles south of Beatty. Nevada will not pose an unreasonable risk of injury to health or the environment.

The expiration date for this approval is January 1, 2001. This approval shall expire on the expiration date unless the applicant makes a written request for renewal of this approval at least 180 days prior to the expiration date.

If you have any questions regarding this approval, please contact Yosh Tokiwa at (415) 744-1118 or Charles Berrey at (415) 744-1117.

Sincerely.

1/11/96

David P. Howekama

Director

Air and Toxics Division

#### Enclosure

cc: Evelyn Ponton, U.S. Ecology
David Hanneman, OPPT, EPA HQ
Jeffrey Denison, Nevada DEP (Carson City)

1000

### US Ecology, Inc.

An American Ecology Company

### **FAX COVER SHEET**

Date:

3.999

Number of Pages:

(including cover sheet)

TO:

Eric

FROM:

Dana Sullivan

Customer Service Manager

**Beatty Operations** 

US Ecology

P.O. Box 578

Beatty, NV 89003

(775) 553-2203 ext. 109

(800) 239-3943

(775) 553-2125 FAX

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# BEATTY, NEVADA - PART A AUTHORIZED WASTE CODES 4/9/97

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### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

HEGION IX

75 Hawthorne Street San Francisco, CA 94105-3901

JAN 16 1995

Mr. Jack E. Lomley Chief Executive Officer U.S. Ecology, Inc. 5333 Westheimer, Suite 1000 Houston, TX 77056

Re: Renewal of Approval to Operate a Chemical Waste Landfill for PCB Disposal EPA ID NVT 3300100000

Dear Mr. Lemicy:

This letter, with enclosed conditions, serves as written approval to renew, pursuant to Section 6 (e) (1) of the Toxic Substances Control Act (TSCA) of 1976 (Public Law No. 94-469) and the Federal PCB Regulation 40 CFR Parts 761.60, 761.65, and 761.75; U. S. Ecology's authority to operate a chemical waste storage and landfill for PCB disposal.

As required by Section 6 (e) (1) of TSCA, the Environmental Protection Agency (EPA), Region IX has determined that your application has satisfied the requirements set forth in 40 CFR Parts 761.60, 761.65 and 761.75. This determination is based on our review of your application and conclusion that operation of the U. S. Ecology, Inc. chemical waste storage and landfill facility located on Highway 95, 11 miles south of Bearty, Nevada will not not an unreasonable risk of injury to health or the environment.

The expiration date for this approval is January 1, 2001. This approval shall expire on the expiration date unless the applicant makes a written request for renewal of this approval at least 180 days prior to the expiration date.

If you have any questions regarding this approval, please contact Yosh Tokiwa at (415) 744-1118 or Charles Berrey at (415) 744-1117.

Sincerely,

1/11/96 Date

David P. Howekamp

Director

Air and Toxics Division

#### Enclosure

cc: Evelyn Ponton, U.S. Ecology
David Hanneman, OPPT, EPA HQ
Jeffrey Denison, Nevada DEP (Carson City)

P.5.4

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX 75 Hawthorne Street San Francisco, CA 94105

In the Matter of U.S. Ecology, Inc.	)	Approval to Commercially Store and Dispose of Polychlorinated Biphenyls (PCBs)
Beatry, Nevada Facility	;	RENEWAL AS AMENDED
5333 Westheimer, Suite 1000	)	
Houston, TX 77056-5407	ነ	

#### AUTHORITY

This Approval to renew U.S. Ecology, Inc., Beatty, Nevada's authority to store and landfill Polychlorinated Biphenyls (PCBs) is issued pursuant to Section 6(e)(1) of the Toxic Substances Control Act (TSCA) of 1976 (Public Law No. 94-469) and the Federal PCB Regulation, 40 C.F.R. Parts 761.60(a)(3)(ii), 761.65 and 761.75.

Under 40 C.F.R. 761.60(i) and 761.65(d)(2), the Regional Administrator is authorized to grant approvals governing the commercial storage and disposal of PCBs. In Region IX, this authority has been redelegated to the Director of the Air and Toxics Division (ATD) by Regional Order R9 1260.31.

#### EFFECTIVE DATE

This Approval shall become effective upon signature of the ATD and shall expire on January I, 2001, unless suspended, revoked, or terminated in accordance with the Conditions of Approval stated herein.

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#### DEFINITIONS

All the terms and abbreviations used in this Approval shall have the meanings as defined in 40 C.F.R. Part 761.3 unless the context clearly indicates otherwise or unless defined below for the purposes of this Approval.

"Application" and "U.S. Ecology Application" mean the December 10, 1994 Application and subsequent (September 1995) revisions which were submitted to EPA Region IX for renewal of U.S. Ecology's November 28, 1989 approval and June 12, 1992 modification to store and landfill PCBs

"U.S. Ecology" means the company U.S. Ecology, Inc. located at 5333 Weathermer, Suite 1000, Houston, TX 77056-5407.

"U.S. Ecology Facility" and "Facility" mean the site located at Bearty, Nye County, Nevada where the EPA-approved PCB commercial storage facility and landfill site is located.

"ATD" means the Director, Air and Toxics Division, EPA Region IX.

"EPA" means the United States Environmental Protection Agency, Region IX Office.

"NDEP" means the Nevada Division of Environmental Protection.

"RCRA" means the Resource Conservation and Recovery Act

"Regional Administrator" means the Regional Administrator, EPA Region IX.

"TSCA" means the Toxic Substances Control Act.

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#### BACKGROUND

U.S. Ecology, Inc. has submitted an application to the Regional Administrator for renewal of EPA Region IX's approval to store and dispose of non-liquid PCB waste in Cell ii, at their landfill site located near Beauty, Nevada.

The facility is a chemically secure landfill located on an 80 acre site on Highway 95 about eleven (11) miles south of the town of Beatry in Nye County, Nevada and consists of nine pre-RCRA filled chemical waste cells plus Cell 10 and the currently active Cell 11.

This facility was established in 1962 by the Nuclear Engineering Company for disposal of low-level radioactive wastes (LLRW). In 1970, Nuclear Engineering obtained permission from the State of Nevada to dispose of hazardous chemical wastes on a portion of the property adjacent to the authorized LLRW disposal area but separated by a 200 foor buffer zone. The chemical disposal facility has been in operation since then. The disposal of LLRW was discontinued in December, 1992.

In November 1980, the facility obtained interim status to operate as a hazardous waste management facility under the Resource Conservation and Recovery Act (RCRA). In 1981, Nuclear Engineering's name became U.S. Ecology, Inc. and has acted as the facility operator while the State of Nevada has retained title to the property. In August 1983, US Ecology submitted Part B of the Federal RCRA permit application to both the State of Nevade Division of Environmental Protection (NDEP) and EPA Region IX and obtained a joint permit in June, 1988, effective for five years. An application to renew their RCRA permit has been submitted to the NDEP and is currently under review.

In addition to the PCB, non-hazardous, and RCRA waste disposal operations, the facility stores, treats and disposes of drummed and bulk solid chemical wastes. The now filled Cell 10, with its above grade portion, contains about 780,000 cubic yards of waste. Coll It has an approximate below-grade capacity of one million cubic yards. The wastes are buried in segregated subcells according to waste compatibility. No ignitable or reactive wastes are accepted for disposal.

The RCRA permit under review for renewal by NDEP seeks authorization to construct and operate an additional landfill cell (Cell 12), two more container storage areas, an additional batch stabilization unit, a tank farm for storage of liquid PCB and hazardous wastes, and a containment building for handling hazardous debris.

EPA Approvals to operate a PCB storage and disposal facility have been issued in 1978, 1982, 1987, and 1989.

#### APPROVAL

- 1. In compliance with the provisions of Section 6(e) of the Toxic Substances Control Act (TSCA), as amended, 15 USC 2601, the State of Nevada, as site owner (herein after sometimes referred to as "Owner") and U.S. Ecology, Inc., the facility operator (herein after sometimes referred to as "Operator"), are hereby authorized to continue to operate, jointly and severally, a commercial PCB storage facility and a chemical waste landfill to dispose of non-liquid polychlorinated biphenyls (PCBs) wastes in Cell 11, a defined 12.28 acre L-shaped area described in the U.S. Ecology Application, in accordance with this Approval and the Conditions of Approval as stated herein.
- 2. Public input was solicited regarding EPA Region IX's pending renewal of U.S. Ecology's authority to commercially store and landfill PCBs. Two, two day notices during a 30 day period were placed in two local newspapers. No responses were received.
- 3. The facility was last inspected May 5, 1995. No violations were found. Based on our review of U.S. Ecology, Inc.'s application for renewal and U.S. Ecology's historical record since 1978, and the results of the most recent inspection, EPA finds that the operation of this PCB storage and landfill operation will not pose an unreasonable risk of injury to human health or the environment.
- 4. To renew this storage and landfill Approval, U.S. Ecology must apply to the EPA in writing at least 180 days but not more than 270 days prior to the expiration date of this Approval. EPA may require U.S. Ecology to submit additional storage, treatment and landfill information in connection with its application for renewal. The above-mentioned information will be reviewed by EPA to determine if this Approval is to be renewed.

#### CONDITIONS OF APPROVAL

#### A. General Conditions

- 1. U.S. Ecology must comply with and operate in accordance with provisions of the PCB regulation (40 C.F.R. Section 761), with the Conditions of Approval stated herein, and with the U.S. Ecology application dated December 10, 1994 and September 1995 revisions which were submitted to and approved by EPA.
- 2. Any departure from the Conditions of Approval, modifications of this Approval, or the U.S. Ecology application approved by EPA, must receive prior written authorization from the ATD. Any unauthorized departure will subject this Approval to suspension, revocation, or termination, and will subject U.S. Ecology to enforcement action under TSCA.

- 3. US Ecology shall notify the EPA in writing and obtain prior approval before instituting any changes that may be required to be consistent with any condition in the final ECRA permit which may affect the PCB disposal operation of Cell 11.
- 4. In the event inconsistencies are found between the plans and specifications for the design, construction, and operation described in the application and the Approval, U.S. Ecology shall comply with the provisions of this Approval.
- 5. If at any time U.S. Ecology becomes aware of any departure from the PCB regulations, Conditions of Approval, modifications of this Approval, or the U.S. Ecology application, which may constitute an imminent danger to human health or the environment, U.S. Ecology shall immediately institute the Contingency Plan and Emergency Procedures delineated in Condition G of this Approval. U.S. Ecology shall also notify the ATD within 24 hours of becoming aware of such non-compliance and submit a written report to ATD describing the departure within five (5) working days. Other non-compliance events not otherwise reported under the provisions of this approval must be reported within thirty (36) days of becoming aware of the non-compliance.
- 6. EPA reserves the right to impose additional conditions to the Approval and to modify any Condition of the Approval. EPA may withdraw or modify this Approval if it has reason to believe that the continued operation of the storage, treatment and/or disposal facility presents an unreasonable risk to public health or the environment, if EPA issues new regulations or standards for issuing PCB approvals, or for noncompliance with the Conditions of the Approval or the PCB regulation (40 C.F.R. Part 761) with the exception of the conditions outlined in E1 and E2.
- 7. U.S. Ecology shall provide upon request any information which the EPA deems necessary to determine whether cause exists for modification, suspension, revocation, or termination of this Approval. Failure to provide the above-mentioned information within five (5) working days of its request, or such reasonable time not to exceed 30 days as agreed to by both parties, shall be deemed a violation of the Conditions of Approval unless EPA determines that additional time is warranted.
- 8. EPA officials and representatives of EPA, upon presentation of credentials, shall be permitted access to the storage, treatment, disposal, and landfill site at all reasonable times during regular business hours to 1) determine compliance with applicable statutes, regulations, Approval, and Conditions of Approval issued pursuant thereto and 2) for the purpose of inspection, sampling, or monitoring.

Any refusal by U.S. Ecology to allow access to the site and process during such regular business hours, or refusal to provide copies of records shall be deemed a violation of the Conditions of Approval.

- 9. This approval designates the State of Nevada as the Owner and U.S. Ecology, Inc., as the Operator of this PCB storage and landfill facility and applies only to these parties as the designated Owner and Operator. Before any change of Owner or Operator occurs, U.S. Ecology shall notify the ATD at least thirty (30) days before transferring ownership of the facility.
- 10. U.S. Ecology shall also submit to the ATD, at least thirty (30) days before such transfer, a notarized affidavit signed by the transferee which state that the transferee will abide by all provisions of this Approval.
- 11. After receiving such notification and affidavit, and other such documents as EPA may require, BPA may issue an amended Approval substituting the transferee's name for the U.S. Ecology name, or EPA may require the transferee to apply for a new PCB landfill and storage Approval. The transferee shall not operate under the Approval until the ATD issues an Approval in the transferee's name.
- 12. This Approval is binding upon U.S. Ecology. U.S. Ecology is responsible for the actions of all U.S. Ecology employees, agents, and contractors who are involved in the operation of the storage and landfill facility. Compliance with the PCB regulation, the Conditions of Approval, modifications of this Approval, written notifications, and the U.S. Ecology application approved by BPA, does not relieve U.S. Ecology of the responsibility to comply with all other applicable Federal, State, and local laws and regulations, including but not limited to the Resource Conservation Recovery Act (RCRA), as amended (42 U3C 6901 et seq.) and the Occupational Safety and Health Act.

#### B. Authorized PCB Wastes

The following non-liquid PCB wastes are the only wastes authorized by this approval for disposal in Cell 11 area.

- 1. Non-liquid PCBs: Non-liquid PCBs in the form of contaminated soil, rags, or other debris. Except for leachate, liquid PCB wastes, regardless of concentration, shall not be processed into non-liquid forms for the purpose of disposal at this PCB landfill.
- 2. <u>Dredged materials and municipal sewage treatment sludge that contain PCBs</u>: These materials shall be dewatered so as to pass the Paint Filter Liquid Test described in the most current approved version of SW-846, "Test Method for Evaluating Solid Wastes, Method 9095", prior to landfilling, and the water disposed of in accordance with 40 C.F.R. 761.60(a)(3).

- 3. <u>Drained PCB Transformers (≥500 npm PCB)</u>: PCB transformers shall be drained of all free-flowing liquids, filled with a PCB-soluble solvent, allowed to stand for at least 18 hours, and then drained thoroughly. The transformer carcass, drained liquid and the solvent removed from the PCB transformers shall be disposed of in accord with 40 C.F.R. 761.60 (a)(1).
- 4. PCB Electrical Equipment: All PCB electrical equipment except capacitors shall be drained of all free-flowing liquids and the liquids disposed of in accord with 40 C.F.R 761.60(s)(2).
  - 5. PCB-Contaminated Capacitors (containing between 50-500 ppm PCBs):
- 6. <u>PCB-Free Capacitors</u>: Any espacitor determined to be PCB free as indicated by label, nameplate information, manufacturer's literature, or chemical analysis.
- 7. PCB Small Capacitors not owned by manufacturer: PCB small capacitors owned 741. 3 (1) by a person who did not manufacture or at any time manufactured PCB capacitors or PCB equipment.
- B. PCB Small Capacitors owned by manufacturer: PCB small capacitors owned by a person who manufactured or at any time manufactured PCB capacitors or PCB equipment and acquired such PCB capacitors or equipment in the course of manufacturing are required to be disposed of by incineration.
- 9. Large Capacitors with 500 ppm or over PCBs: Large, high or low voltage 741.60 (2)(1) capacitors containing PCBs 500 ppm or over are required to be disposed of by incineration.
- 10. <u>Drained PCB Hydraulic Machines</u>: PCB hydraulic machines must be drained of all free-flowing liquids and the liquids disposed of in accord with 40 C.F.R. 761.60(a)(1). If the liquid contains 1000 ppm PCBs or greater, the machine must be flushed with a PCB-soluble solvent containing less than 50 ppm PCBs and the solvent disposed of in accord with 40 C.F.R. 761.60(a)(1).
- 11. PCB Articles at 500 ppm PCBs or Greater: PCB Articles containing PCBs at 500 ppm or greater shall be thoroughly drained of all free-flowing PCB liquids and the drained liquids disposed of in an EPA approved incinerator.
- 12. PCB Articles With Between 50-500 ppm PCBs: PCB articles containing PCBs between 50 and less than 500 ppm shall be thoroughly drained of all free-flowing PCB liquids and the drained liquids disposed of in accord with 40 C.F.R. 761.60(a)(2).

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- 13. Undecontaminated PCB Containers: PCB containers which have been used to contain PCB liquids 500 ppm or greater and which have not been decontaminated in accordance 40 C.F.R. 761.79 must be drained of any liquids and the liquids disposed of in accord with 40 C.F.R. 761.60(a).
- 14. PCB Containers Exposed to less than 500 ppm PCBs; Containers used to contain PCB liquids at less than 500 ppm must be drained of any liquids and the liquids disposed of in accord with 40 C.F.R. 761.60(a).
- 15. Combined TSCA/RCRA Waste Streams: PCB-containing wastes may be placed in the stabilization unit when the presence of RCRA hazardous constituents in combined RCRA/TSCA waste requires treatment prior to land disposal. This unit is not authorized for management of any combined waste streams in which the PCB component of the waste is not otherwise authorized for direct land disposal.

#### C. Storage of PCBs

- 1. The facilities for long term storage (over 30 days) of PCBs and PCB Items designated for disposal shall comply with the following requirements:
  - a) Adequate roof and walls to prevent rain water from reaching the stored PCBs and PCB Items.
  - b) An adequate floor with a continuous curb at least six inches high. The floor and curbing shall provide a containment volume at least twice the internal volume of the largest PCB Article or PCB Container stored therein or 25 percent of the total internal volume of all the PCB Articles or PCB Containers stored therein, whichever is greater.
  - c) The floor and curbing shall be constructed of continuous, smooth and impervious materials such as Portland coment concrete or steel. An Epoxy or similar coasing is recommended with concrete to prevent or minimize penetration of PCBs.
  - d) There shall be no drain valves, expansion joints, sewer lines, or other openings that would permit liquids to flow from the curbed area.
  - b) The area is not located below the 100-year flood water elevation.
- 2. All storage tanks for bulk storage of drained PCB liquids, flushates and other liquid PCB wastes shall be located in a bormed, containment area and comply with the following requirements:

- a) The tanks are elevated to allow daily leak detection.
- b) Has a secondary containment system consisting of a sandwich of two (2) 30 mil liners and a 125 mil polyester filter febric protective sheet covered by at least 12 inches of sand for protection of the liner and easy cleanup of any spills.
- c) The capacity of the containment area is twice the volume of the largest tank plus the precipitation from a 24 hr. 100 year storm.

#### D. Disposal

- 1. The landfill disposal requirements specified in 40 C.F.R. 761.60, <u>761.75</u>, 761.120, and 761.180(b) shall be adhered to at all times. The requirements of 40 C.F.R. 761.65 shall be adhered to should any non-liquid PCB wastes be stored prior to disposal.
- 2. The operations plan and procedures specified in the Landfill Operations Plan of the December 10, 1994 application submitted to the EPA and the revisions and amendments incorporated as a conditional part of this Approval shall be adhered to at all times along with any future amendments approved or specified in writing by the EPA.
- 3. PCBs and PCB Items shall be placed in areas authorized for PCB disposal in a manner that will provent damage to containers and stricles.
- 4. Non-liquid wastes chemically compatible with PCB wastes may also be disposed of in Cell 11. Non-compatible wastes may be disposed of in areas authorized for PCB disposal but must be separated from PCB wastes with at least two (2) feet of mutually compatible wastes or clean soil.
- 5. Under no circumstances shall ignitable wastes be disposed of in areas designated for non-liquid PCB disposal. The disposal of liquid wastes, as defined by the Paint Filter Liquid Test, is not permitted in any portion of Cell 11.
- 6. The disposal of non-liquid, non-PCB wastes in Cell 11 must also comply with the rules and regulations promulgated pursuant to RCRA.
  - 7. All PCB wastes shall be buried three (3) feet below the natural land surface.

#### E. Operation

1. The leachate collection/monitoring system shall be inspected weekly for the presence of any liquid. Any pumpable liquid detected shall be pumped until liquid removal is no longer possible and the quantity of liquid removed recorded. Whenever liquids in the leachate collection/monitoring system are found above the pumpable level, the inspection frequency for that sump will be increased to daily until the liquid level in the sump remains below pumping level for two consecutive days. At that time the monitoring may then revert to weekly.

- 2. The collected leachate shall be sampled and analyzed quarterly for PCB, pH, specific conductance, and chlorinated organics in accordance with the facility's Sampling and Analysis Plan. (On June 12, 1992, US Ecology's monthly reporting for leachate required under TSCA was amended to permit quarterly reporting to maintain consistency with US Ecology's RCRA permit conditions. This exception is continued in view of no verifiable PCBs in any leachate sample since the reporting of leachate was instituted in 1989).
- 3. The owner or operator shall report in writing to the EPA whenever PCBs at ≥ 2 ppm are detected in any monitoring wells or at the leachate collection/detection sumps upon confirmation of the analytical results.
- 4. Collected leachate, regardless of PCB concentration (≥ 2 ppm), shall not be solidified by mixing with soil or other absorbent material, and disposed of in areas authorized for non-tiquid PCB disposal. Such leachate must be stored in containers or tanks in accordance with 40 C.F.R. 761.65 and transported to an authorized off-site facility for storage, treatment and/or disposal. The leachate may also be processed through a carbon adsorption system to remove organic contaminants which, after confirming through analysis that PCBs are less than 2 ppm in the processed leachate, may be solidified with a pozzolanic reagent or equivalent before disposal in any active landfill cell. Processed leachate may be sent to an authorized off-site storage or disposal facility.
- 5. The spent carbon from the carbon adsorption system shall be sent off-site for regeneration or disposal at an authorized facility.
- 6. All run-on water from precipitation accumulated in areas authorized for non-liquid PCB disposal shall be considered leachate and handled as such.
- 7. All water analysis, including those from collected leachaic and monitoring well samples, shall be performed in accord with the requirements specified in 40 C.F.R. 761.75 (b)(6)(iii) for PCB, pH, specific conductance, and chlorinated organics.
- 8. All monitoring wells for the non-liquid PCB disposal site (Cell 11) shall be sampled at least once every six months after final closure of Cell 11, for a period of thirty years. After closure, the leachate in the leachate collection system's sumps will initially be monitored monthly. The monitoring frequency may be reduced to quarterly and eventually semiannually if no pumpable liquids are detected for two consecutive monitoring terms. Any time pumpable liquids are detected during the post closure care period, the monitoring period will revert to monthly and continue until no pumpable liquids are found for two consecutive months when the monitoring frequency may again be reduced to quarterly and eventually semiannually if no pumpable liquids are detected for two consecutive monitoring terms.
- 9. EPA shall be notified in writing of all amendments to the Operation Plan. Any amendments to the Plan which affect the manner in which the facility complies with the TSCA regulations or the TSCA approval are subject to EPA approval prior to implementation pursuant to 40 C.F.R. 761.75(b)(8)(ii).

10. The owner or operator of the PCB landfill facility shall submit monthly in writing a report of any PCB wastes received during the previous month which had resulted in spills, leaks, or uncontrollable discharges of PCBs. The report shall include the source of the PCB wastes, name of transporter, the quantity received, and a description of the PCB wastes.

In addition, the monthly report shall include a description of any event which is not normal to the operation of the PCB landfill facility as hereby authorized such as accidents, spills, leaks, uncontrolled discharges, earthquake damage, excessive rain episodes (i.e., rainfall in excess of the 24 hr, 25 yr. storm event), fires, explosions, etc.

- 11. The notification of State and Local governments shall be in accord with 40 C.F.R. 761.60 (f)(1)(ii). Such notification shall be specifically addressed to the appropriate State and local officials or specifically addressed to the titles of their positions.
- 12. If at any time the EPA determines that the PCB storage and/or landfill facilities authorized by this approval are creating a situation of imminent hazard, EPA will notify the facility as to the steps required to prevent the hazard. Such steps must be taken by the date provided in such notice.
- 13. This approval shall be subject to periodic review as deemed appropriate by EPA and may be modified, suspended, or revoked in whole or in part for cause including, but not limited to, the following:
  - a) Violation of any terms or conditions of this approval.
  - b) Obtaining this approval by misrepresentation or failure to disclose fully all relevant facts.
  - c) A material change in any condition that requires cessation of the authorized activities.
  - d) For other reasons authorized by law.

#### F. Worker Protection

- U.S. Ecology shall meet the following work practice, operation, and other standards at all times during the operation of its facility. All such standards are Conditions of this Approval.
- 1. U.S. Ecology shall take all precautionary measures to ensure that the operation of the PCB landfill and disposal processes are conducted in compliance with the applicable safety and health standards required by Pederal, State, and local regulations and ordinances.

- 2. All US Ecology employees must undergo training with periodic refreshers in accordance with US Ecology's Training Plan described in the September 1995 revision to the December 10, 1994 application. All new employees must be trained before entering the storage, processing, and landfill areas. A signature sheet must be included as a part of each employee's training record to verify participation in the training program.
- 3. Surfaces of the clean-in/clean-out and non-processing areas of the facility shall not exceed 10 ug/100 cm<sup>2</sup> PCBs.
- 4. All plant operations personnel must enter and leave the PCB processing facility through the clean-in/clean-out facility.
- 5. Surface areas of the clean-in/clean-out and non-storage areas within the facility shall not exceed 4 pg/cm<sup>2</sup> 2,3,7,8-TCDD equivalency.
- 6. In the event levels of contamination in excess of those referenced in Paragraphs F3 and F5, U.S. Ecology shall immediately begin decontamination of the affected area. Cleanup to below the referenced levels shall be completed within 48 hours of discovery of the initial contamination.

#### G. Contingency Plan and Emergency Procedures

- 1. U.S. Ecology shall follow the SPCC and/or Contingency Plans in the approved application whenever there is a fire, explosion, or release of PCBs or hazardous constituents.
- 2. A copy of the Contingency Plan and all revisions to the Plan are to be maintained at the U.S. Ecology site. A copy of the Training Manual, SPCC Plan, and this Approval shall also be maintained on-site. Also lists of emergency contacts, telephone numbers, and designated emergency exit routes shall be posted in prominent locations throughout the facility
  - 3. The facility shall at a minimum be equipped with the following:
    - a) An internal communications or alarms system capable of providing immediate emergency instruction (voice of signal) to facility personnel.
    - b) Devices, such as a relephone, cellular phone or hand-held two-way radio, which is immediately available at the scene of the operations and capable of summoning emergency assistance from local police departments, fire departments, or State or local emergency response teams.
    - c) Portable fire extinguishers, fire control equipment, spill control equipment, and decontamination equipment.

- d) Water at adequate volume and pressure to supply fire hose streams or foam equipment.
- e) U.S. Ecology shall at a minimum test and maintain the equipment specified above as recommended by the manufacturer to assure its proper operation in time of emergency. In the event any of the equipment specified above was manufactured by U.S. Ecology, U.S. Ecology shall establish and follow a testing and maintenance plan for those manufactured items.
- 4. Whenever PCBs are being poured, mixed, or otherwise handled, U.S. Ecology shall ensure that all personnel involved in the operation will have immediate access to an internal alarm or emergency communication device, either directly or through visual or voice contact with another employee.
- 5. At all times, there shall be at least one (I) employee either at the U.S. Ecology facility or on call who has:
  - a) The responsibility for coordinating all emergency response measures.
    - b) The authority to commit the resources needed to carry out the Contingency Plans.

This employee shall have immediate access to the entire facility and to a communication device such as a telephone, collular phone, or hand-held two-way radio immediately available at the scene of operation capable of summoning external emergency assistance.

- 6. Adequate aisle space shall be maintained to allow for unobstructed access by personnel, fire protection equipment, and decontamination equipment to all PCB items stored on-site.
- 7. All facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment shall be inspected at the frequencies referenced in Section 7, Facility Inspection (Revision 1), of the approved application. All such equipment not specifically referenced in Section 7 of the approved application must be inspected at least once a month to assure its proper operation. All emergency equipment inspection and maintenance records must be maintained at the U.S. Ecology facility for at least three years and made available to EPA upon request.

- 8. U.S. Ecology shall update the information regarding the storage and disposal activities at the facility, stored materials, contingency plans, and emergency procedures provided to local police departments, hospitals, and state and local emergency response teams that may be called upon to provide emergency service on an annual basis.
- 9. In the event an authorized facility operator of U.S. Ecology believes, or has reason to believe, that any detectable quantities of PCBs have been released to the environment as a result of storage and/or disposal operations, the facility operator shall immediately inform the EPA emergency response personnel by telephone at (415) 744-2000 within 24 hours after discovery. A full investigation into the cause of the incident and a detailed report shall be included in the daily operation records. A copy of this report describing the incident shall be submitted to ATD within 15 days after the incident.
- 10. In the event of a detectable release of PCBs to groundwater, U.S. Ecology shall implement the compliance monitoring and corrective action programs stipulated by the RCRA permit.
- 11. U.S. Ecology shall immediately report to EPA if unauthorized entry at the facility occurred which caused PCBs to be discharged, the nature of the problem, if any, that resulted from this occurrence, and the corrective action taken by the facility to prevent future occurrences. This includes any tampering, destruction, or loss at the facility which caused release of PCBs.
- 12. U.S. Ecology shall review and immediately amend, if necessary, the SPCC Plan and Contingency Plan whenever:
  - a) The Plan fails in an emergency:
  - b) The facility changes in its design, construction, operation, maintenance, or other circumstances that materially increase the potential for fires, explosions, or releases of PCBs or hazardous constituents, or other response necessary in an emergency;
  - c) The list of emergency coordinators changes;
  - d) The list of emergency equipment changes;
  - e) When any major revision is warranted;
  - f) EPA determines that a revision to the Plan is necessary.

### H. Recordkeeping and Reporting

- 1 U.S. Ecology shall comply with all recordkeeping requirements outlined in the PCB Regulation, 40 C.F.R. Part 761.
- 2. All PCB records, documents, and reports shall be maintained at the U.S. Ecology facility, and shall be made available for inspection by authorized EPA representatives. When U.S. Ecology ceases operations, all records, documents, and reports or certified copies thereof, shall be maintained for at least five (5) years following cessation of operations, and made available to EPA upon request.
- 3. All records required by 40 C.F.R. §761.180 and this Approval shall be written in ink or typed. Any modification or correction of the records must be initialed and dated by the supervisor in charge. If the recordkeeping is maintained by computer system, U.S. Ecology shall maintain monthly printouts of records pertaining to the process.
- 4. The reports, notifications, mail, or other submittals required to be submitted to EPA under this Approval to Operate shall be sent to:

Director
Air and Toxics Division
U.S. Environmental Protection Agency
Region IX
75 Hawthorne Street
San Francisco, CA 94105
Attn: Jo Ann Semones, Ph.D., A-4-4

- 5. All records, documentation, and information relating to the sampling, analysis, and quality assurance as required by this Approval shall be retained a for a minimum of five (5) years, or longer if requested by ATD, and made available upon request. These records, documentation, and information shall include the following:
  - a) Exact date, place, and time of each sample collected;
  - b) Volume of each sample collected;
  - c) Name of person collecting each sample;
  - d) Name of analyst:
  - e) Date and time of analysis;

- f) The analytical techniques or methods used for each sample;
- g) The analytical results including chromatographs, calculations, and other race dara:
- h) Calibration records, maintenance records of sampling equipment, and analytical instrumentation; and,
- i) Records of quality assurance activities as described in Section 6 of the approved application.
- 6. At the completion of a cleanup required by Paragraph F 8, U.S. Ecology shall develop and maintain records of the cleanup including at a minimum:
  - a) Identification of the source of the contamination;
  - b) Date and time contamination was discovered;
  - c) Date and time cleanup was completed:
  - d) A brief description of confaminated area;
  - e) Pre-cleanup and post-cleanup sampling data used to define boundaries of contamination and a brief description of the sampling methodology used to establish contaminated boundaries;
  - f) Amount of waste cleanup material generated;
  - g) A certification statement signed by U.S. Ecology personnel stating that the decontaminated levels referenced in the appropriate Approval condition has been achieved and that the information contained in the record is true to the best of his/her knowledge.
- 7. U.S. Ecology shall submit to the ATD a summary of all modifications to the process and application document within thirty (30) days of the end of each year's operation, or a report that no such modifications were made.
- 8. U.S. Ecology shall maintain copies of the Certificate of Disposal for all PCBs and PCB items which are stored at the commercial storage facility. Certificates of Disposal shall be provided to the generator within thirty (30) days of receipt by U.S. Ecology of documentation of final disposal of all materials resulting from the commercial storage of the generator's PCBs and PCB items.

### I. Closure and Financial Requirements

- Under the 1988 Nevada Division of Environmental Protection (NDEP), hazardous waste permit, U.S. Ecology is exempt from the TSCA financial assurance requirement as a state owned facility. However, the NDEP will require financial assurance when the NDEP permit is renewed next year. Upon approval of the NDEP permit, U.S. Ecology shall establish a financial assurance mechanism, as required by Condition I in this Approval, in coordination with the State of Nevada and EPA.
- 2. Within thirty (30) days of establishment of such financial mechanism, an executed copy of the trust agreement or other instrument and satisfactory evidence as determined by EPA of adequate liability insurance meeting the requirements of 40 C.F.R. Part 264. Subpart H shall be submitted to ATD. U.S. Ecology shall submit such other documentation as EPA may require to determine that the liability insurance requirement has been met.
- 3. The financial assurance mechanism shall be equivalent to that specified in 40 C.F.R. 761.65(g) and shall be maintained to provide for:
  - a) Funding of proper closure of the operation. The closure plan shall include the decontamination and/or disposal in an EPA approved PCB disposal facility of PCB-contaminated equipment and materials.
  - b) Compensating others for bodily injury and property damage caused by accidents arising from operations of the facility.
- 4. U.S. Ecology shall comply with the current closure plan and closure cost estimate approved by EPA. At no time may the estimated costs associated with performing closure of the U.S. Ecology facility exceed the current closure cost estimate approved by EPA.
- 5. U.S. Ecology shall notify the ATD at least 90 days prior to the date it expects to begin closure.
- 6. Upon termination of the operation, U.S. Ecology shall proceed according to the provisions of the Closure Plan submitted to and approved by EPA. As used in this paragraph, "termination of the operation" includes cessation of operations required by expiration, termination, or revocation of this Approval.
- 7. U.S. Ecology shall amend the Closure Plan whenever changes in operating plans or facility design affect the Closure Plan, including the current closure cost estimate, or whenever there is a change in the expected year of closure. U.S. Ecology must submit to the ATD for approval any modifications to the Closure Plan at least thirty (30) days prior to the modification.

- 8. U.S. Ecology shall submit documentation of continued financial assurance annually to ATD to meet the requirements of Paragraph 4 of this Section.
- 9. The cost estimate for closure shall be based on worst-case conditions and shall be updated annually, or whenever a change in the Closure Plan increases the closure cost, and maintained on-site with the Closure Plan. The updated closure cost estimates shall be submitted to ATD within thirty (30) days of modification of the estimated closure cost.

1/11/90

Date

David P. Howekamp

Director

Air and Toxics Division

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# ACCEPTABLE EPA CODES WASTE CODES FOR TREATMENT

# Per PART A application in Section I.A. of the 1994 Permit Application - Approved 4/9/97

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Please print or type with EUTE type (12 characters per inch) in the unshaced areas univ **いった いし じとーのモアカーノ** ( EPATID: Number (Edian France page 17 mar. 0 0 0 10 N V T 3 3 0 0 1 XIV: Description of Hazardous Waster (Sontinued) O UNET COM MEASURED (Ender Code) DAIRCESS HAZARDOUS
LINE WASTENOL
NUMBER (ENER CODE) \*SESTIMATED ANNILAL 2 Forest Description INTERESTICATES (ESTADOM) CUMNITYOF (Ha code is not entered in D(1)) WASTE D80/T04/T01/S01/S02/S06/T94/X02 T 40.000 25 D025 T D80/T04/T01/S01/S02/S06/T94/X02 40.000 26 D026 D80/T04/T01/S01/S02/S06/T94/X02 T 40,000 27 D027 40,000 T D80/T04/T01/S01/S02/S06/T94/X02 28 D028 D80/T04/T01/S01/S02/S06/T94/X02 T 40,000 29 D029 T D80/T04/T01/S01/S02/S06/T94/X02 40,000 30 D030 T D80/T04/T01/S01/S02/S06/T94/X02 31 D031 40,000 T D80/T04/T01/S01/S02/S06/T94/X02 32 D032 40,000 T 33 D033 40,000 D80/T04/T01/S01/S02/S06/T94/X02 34 D034 40,000 T D80/T04/T01/S01/S02/S06/T94/X02 T D80/T04/T01/S01/S02/S06/T94/X02 35 40,000 D035 T D80/T04/T01/S01/S02/S06/T94/X02 36 D036 40,000 T D80/T04/T01/S01/S02/S06/T94/X02 D037 40,000 37 40,000 T D80/T04/T01/S01/S02/S06/T94/X02 38 D038 40,000 T 39 D039 D80/T04/T01/S01/S02/S06/T94/X02 T 40,000 D80/T04/T01/S01/S02/S06/T94/X02 40 D040 41 D041 40,000 Ţ D80/T04/T01/S01/S02/S06/T94/X02 42 D042 40,000 T D80/T04/T01/S01/S02/S06/T94/X02 T 43 D043 40,000 D80/T04/T01/S01/S02/S06/T94/X02 44 F001 5,000 T D80/T04/T01/S01/S02/S06/T94/X02 45 F002 5,000 T D80/T04/T01/S01/S02/S06/T94/X02 F003 46 5,000 T D80/T04/T01/S01/S02/S06/T94/X02 47 F004 5,000 T D80/T04/T01/S01/S02/S06/T94/X02 48 F005 5,000 T D80/T04/T01/S01/S02/S06/T94/X02 49 F006 T 40,000 D80/T04/T01/S01/S02/S06/T94/X02

P.06

MAR 09 1999 12:47 FR US ECOLOGY 1

GSA No 0248-EPA-DT

Prease print or type with ELITE type (12 characters per inch) in the unshaded areas only Secondary 10 Number (Enter from Page 1) XIV. Description of Hazardous Wastes: (Continued) D.Process CLUNTROF A.EPA SESTIMATED MEASURE HAZARDOUS ANNUAL (Enter code) F) PROCESS CODES (Enter Code) (2) Process Description **QUANTITY OF** WASTEND. Line (Hacode is not entered in C(1) (Enter Code) WASTE Number T D80/T04/T01/S01/S02/S06/T94/X02 5,000 50 F007 T D80/T04/T01/S01/S02/S06/T94/X02 51 F008 5,000 T D80/T04/T01/S01/S02/S06/T94/X02 52 F009 5,000 T D80/T04/T01/S01/S02/S06/T94 F010 5,000 53 T D80/T04/T01/S01/S02/S06/T94/X02 54 F011 10,000 T D80/T04/T01/S01/S02/S06/T94/X02 F012 5,000 55 T D80/T04/T01/S01/S02/S06/T94/X02 56 F019 5,000 T 57 F020 1,000 D80/T04/T01/S01/S02/S06/T94/X02 D80/T04/T01/S01/S02/S06/T94/X02 58 F021 1,000 T 59 F022 T 1,000 D80/T04/T01/S01/S02/S06/T94/X02 60 F023 T 1,000 D80/T04/T01/S01/S02/S06/T94/X02 1,000 бi F024 T D80/T04/T01/S01/S02/S06/T94/X02 62 F025 10,000 T D80/T04/T01/S01/S02/S06/T94 63 F026 1,000 T D80/T04/T01/S01/S02/S06/T94/X02 64 F027 Ţ 1,000 D80/T04/T01/S01/S02/S06/T94/X02 65 F028 1,000 T D80/T04/T01/S01/S02/S06/T94/X02 661 F032 T 5,000 D80/T04/T01/S01/S02/S06/T94 67 F034 5,000 T D80/T04/T01/S01/S02/S06/T94 68 F035 5.000 T D80/T04/T01/S01/S02/S06/T94 69 F037 10,000 Ţ D80/T04/T01/S01/S02/S06/T94/X02 70 F038 10,000 T D80/T04/T01/S01/S02/S06/T94/X02 71 F039 40,000 T D80/T04/T01/S01/S02/S06/T94/X02 72 K001 1,000 T D80/T04/T01/S01/S02/S06/T94/X02

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D80/T04/T01/S01/S02/S06/T94

EPALD. Number (Emercition page 7). Secondary ID Number (Enternom Pagest) N | V | T | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 XIV@Descriptionoshazarobus.Wastes(Condiqued) SESTIMATED: SECURIOR LiProcess. A EPA HAZARDOUS MEASURE TENROCES CORES (Effers Code) (2) Process Descriptions (15) Codes not entered to ANNUAL GUANNIEY OF WASTENEL (Hacoders not entered in 27) Number EnterCode WASTE D80/T04/T01/S01/S02/S06/T94 97 K027 1.000 T D80/T04/T01/S01/S02/S06/T94/X02 T 98 K028 1,000 T D80/T04/T01/S01/S02/S06/T94 99 K029 1,000 T D80/T04/T01/S01/S02/S06/T94 K030 1,000 100 T D80/T04/T01/S01/S02/S06/T94/X02 K031 101 1,000 T D80/T04/T01/S01/S02/S06/T94 102 K032 1,000 D80/T04/T01/S01/S02/S06/T94 103 K033 1,000 T K034 T D80/T04/T01/S01/S02/S06/T94 104 1.000 K035 T D80/T04/T01/S01/S02/S06/T94 105 1.000 1,000 106 K036 T D80/T04/T01/S01/S02/S06/T94 K037 Ţ 107 1,000 D80/T04/T01/S01/S02/S06/T94 K038 T 108 D80/T04/T01/S01/S02/S06/T94 1,000 K039 T 109 1,000 D80/T04/T01/S01/S02/S06/T94 K040 110 1,000 T D80/T04/T01/S01/S02/S06/T94 K041 T 111 1,000 D80/T04/T01/S01/S02/S06/T94 K042 112 T D80/T04/T01/S01/S02/S06/T94 1,000 113 K043 1,000 T D80/T04/T01/S01/S02/S06/T94 K044 114 10,000 T D80/T04/T01/S01/S02/S06/T94 115 K045 10,000 T D80/T04/T01/S01/S02/S06/T94 116 K046 1,000 T D80/T04/T01/S01/S02/S06/T94/X02 117 K047 10,000 Ţ D80/T04/T01/S01/S02/S06/T94 118 K048 10,000 T D80/T04/T01/S01/S02/S06/T94/X02 119 K049 10,000 T D80/T04/T01/S01/S02/S06/T94/X02 120 K050 10,000 T D80/T04/T01/S01/S02/S06/T94/X02

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N V	T   3   3   (			
	A.EPA SHAZARDOUS	SESTMATED ANNUAL	MEASURE	D.Proess.
reie.	WASTEND."	CHANTITY OF	(Entercode)	(1) PROCESS CODES (Erzer Gole) Common Description: (Eracoderis not entered in Octob
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		10.000	<b>-</b>	700 T04 T01 (50) (50) (50) (50) (704 T02
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122	K052	10,000	T _	D80/T04/T01/S01/S02/S06/T94/X02
123	K060	5000	Т	D80/T04/T01/S01/S02/S06/T94
124	K061	5000	T	D80/T04/T01/S01/S02/S06/T94/X02
125	K062	5000	Т	D80/T04/T01/S01/S02/S06/T94/X02
126	K064	10,000	T	D80/T04/T01/S01/S02/S06/T94
127	K065	10,000	T	D80/T04/T01/S01/S02/S06/T94/X02
128	K066	10,000	T	D80/T04/T01/S01/S02/S06/T94
129	K069	10,000	Т	D80/T04/T01/S01/S02/S06/T94/X02
1.30	K071	1,000	T	D80/T04/T01/S01/S02/S06/T94/X02
1	K073	1,000	Т	D80/T04/T01/S01/S02/S06/T94
132	K083	1,000	T	D80/T04/T01/S01/S02/S06/T94/X02
133	K084	1,000	T	D80/T04/T01/S01/S02/S06/T94
134	K085	1,000	T	D80/T04/T01/S01/S02/S06/T94
152	77007	1.000	-	D00 F0 + F01 /00' /000 /00 6 F0 + F00
135	K086	1,000	T	D80/T04/T01/S01/S02/S06/T94/X02
136		1,000	T	D80/T04/T01/S01/S02/S06/T94/X02
137	K088	10,000	T	D80/T04/T01/S01/S02/S06/T94/X02
138	K090	10,000	T	D80/T04/T01/S01/S02/S06/T94
139	K091	10,000	T	D80/T04/T01/S01/S02/S06/T94
140	K093	1,000	T	D80/T04/T01/S01/S02/S06/T94
141	K.094	1,000	Т	D80/T04/T01/S01/S02/S06/T9
142	K095	1,000	τ	D80/T04/T01/S01/S02/S06/T94
143	K096	1,000	T	D80/T04/T01/S01/S02/S06/T94
)44	K097	1,000	T	D80/T04/T01/S01/S02/S06/T94
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):  keimese	HAZARDODS: WASTERO	CHANTIFICE	SIA COM	proprocess coors (Figure Gode)s. Process Description
Number	(EnterCode)	WASTE		[Facade Estatedins[ii]]
145	K098	1,000	Т	D80/T04/T01/S01/S02/S06/T94
146	K099	1,000	T	D80/T04/T01/S01/S02/S06/T94
147	K100	1,000	Т	D80/T04/T01/S01/S02/S06/T94/X02
148	K101	1,000	T	D80/T04/T01/S01/S02/S06/T94/X02
149	K102	1,000	T	D80/T04/T01/S01/S02/S06/T94/X02
150	K103	1,000	T	D80/T04/T01/S01/S02/S06/T94
151	K.104	1,000	T	D80/T04/T01/S01/S02/S06/T94
152	K105	1,000	T	D80/T04/T01/S01/S02/S06/T94
153	K106	1,000	T	D80/T04/T01/S01/S02/S06/T94/X02
154	K107	10,000	T	D80/T04/T01/S01/S02/S06/T94
155	K108	10,000	T	D80/T04/T01/S01/S02/S06/T94
156	K109	10,000	Т	D80/T04/T01/S01/S02/S06/T94
157	K110	10,000	Т	D80/T04/T01/S01/S02/S06/T94
158	K111	5,000	Т	D80/T04/T01/S01/S02/S06/T94
159	K112	5,000	Т	D80/T04/T01/S01/S02/S06/T94
160	K113	1,000	T	D80/T04/T01/S01/S02/S06/T94
161	K114	1,000	Т	D80/T04/T01/S01/S02/S06/T94
162	K115	1,000	T	D80/T04/T01/S01/S02/S06/T94
163	K116	1,000	T	D80/T04/T01/S01/S02/S06/Ţ94

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			2 FR US ECOLO	GY 1	702 553 2125 TO 19094822272 P.11
	EFE   2   Number (Energian Epice 2)				
	1 . , , .		e Wester (Carring	edille.	
`)		A PA DAZABBOES	ANNEAL	CLUNTAGE MEASURE Entercodata	BIRROCESS CODES (Entractor) (2) Process Description
	Number:	WASTERD. (Enter:Spite).	GHENTITY OF		(If a code a pot enteredaint)
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	170	K131	10,000	T	D80/T04/T01/S01/S02/S06/T94
	171	K132	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	172	K136	1,000	Т	D80/T04/T01/S01/S02/S06/T94
	173	K141 ·	10,000	T	D80/T04/T01/S01/S02/S06/T94
	174	K142	10,000	T	D80/T04/T01/S01/S02/S06/T94
	175	K143	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	176	K144	10,000	T	D80/T04/T01/S01/S02/S06/T94
	177	K145	10,000	T	D80/T04/T01/S01/S02/S06/T94
	178	K147	10,000	r	D80/T04/T01/S01/S02/S06/T94
<b>(499)</b>	179	K148	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	180	K149	10,000	T	D80/T04/T01/S01/S02/S06/T94
	181	K150	10,000	Т	D80/T04/T01/S01/S02/S06/T94
į	182	K151	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	183	P001	10,000	T	D80/T04/T01/S01/S02/S06/T94
	184	P002	10,000	T	D80/T04/T01/S01/S02/S06/T94
	185	P003	10,000	T	D80/T04/T01/S01/S02/S06/T94
	186	P004	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	187	P005	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	188	P006	10,000	T	D80/T04/T01/S01/S02/S06/T94
	189	P007	10,000	T	D80/T04/T01/S01/S02/S06/T94
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	V:Desci	iptionus Hazardon	-Wardes (Continue 25: ES DIMENSE)	dissi Schungger	D'RIDCESS!
sse S		ALETA HAZARDOBS WASTENDE	ANNEAL CHANTITY OF	MERSONE (Entercode)	GEPROGESS CORES (EnterGotie) 22-Apocess Description
200.00	nube:	Enter Code)	<b>WASTE</b>		([Firston and a state of the st
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	217	P040	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	218	P041	10,000	T	D80/T04/T01/S01/S02/S06/T94
	219	P042	10,000	T	D80/T04/T01/S01/S02/S06/T94
	220	P043	10,000	T	D80/T04/T01/S01/S02/S06/T94
	221	P044	10,000	T	D80/T04/T01/S01/S02/S06/T94
	222	P045	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	223	P046	10,000	T	D80/T04/T01/S01/S02/S06/T94
	224	P047	10,000	T	D80/ T04/T01/S01/S02/S06/T94
	225	P048	10,000	T	D80/T04/T01/S01/S02/S06/T94
	226	P049	10,000	T	D80/T04/T01/S01/S02/S06/T94
WEED!	227	P050	10,000	T	D80/T04/T01/S01/S02/S06/T94
	228	P051	10,000	T	D80/T04/T01/S01/S02/S06/T94
	229	P054	10,000	T	D80/T04/T01/S01/S02/S06/T94
	230	P056	50000	T	D80/T04/T01/S01/S02/S06/T94
	231	P057	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	232	P058	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	233	P059	10,000	T	D80/T04/T01/S01/S02/S06/T94
	234	P060	10,000	T	D80/T04/T01/S01/S02/S06/T94
	235	P062	10,000	T	D80/T04/T01/S01/S02/S06/T94
	236	P063	10,000	T	D80/T04/T01/S01/S02/S06/T94
	237	P064	10,000	Ţ	D80/T04/T01/S01/S02/S06/T94
	238	P065	50,000	T	D80/T04/T01/S01/S02/S06/T94
	239	P066	10,000	Т	D80/T04/T01/S01/S02/S06/T94
1	240	P067	10,000	T	D80/T04/T01/S01/S02/S06/T94
)	241	P068	50,000	T	D80/T04/T01/S01/S02/S06/T94

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		A.EVA	SESTIMATED	COUNTRO!	DIPPOCESS 0
63.00	Line	HAZARDOLIS WASTEND	ADMISAL CHAREFEY OF	(Enlarcoda)	(FPROCESSICACES(EnterCode) (Processic Description) (If an address not entered in [1])
188	omber.	Enter Code	WASTE		
				_	
	242	P069	10,000	T	D80/T04/T01/S01/S02/S06/T94
	243	P070	10,000	T	D80/T04/T01/S01/S02/S06/T94
	244	P071	10,000	T	D80/T04/T01/S01/S02/S06/T94
	245	P072	10,000	T	D80/T04/T01/S01/S02/S06/T94
	246	P073	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	247	P074	10,000	T	D80/T04/T01/S01/S02/S06/T94/X02
	248	P075	10,000	T	D80/T04/T01/S01/S02/S06/T94
	249	P076	50,000	T	D80/T04/T01/S01/S02/S06/T94
	250	P077	10,000	T	D80/T04/T01/S01/S02/S06/T94
l	251	P078	50,000	T	D80/T04/T01/S01/S02/S06/T94
128"	252	P081	50,000	T	D80/T04/T01/S01/S02/S06/T94
	253	P082	10,000	T	D80/T04/T01/S01/S02/S06/T94
	254	P084	10,000	T	D80/T04/T01/S01/S02/S06/T94
	255	P085	10,000	T	D80/T04/T01/S01/S02/S06/T94
	256	P087	50,000	Т	D80/T04/T01/S01/S02/S06/T94
	257	P088	10,000	T	D80/T04/T01/S01/S02/S06/T94
	258	P089	10,000	T	D80/T04/T01/S01/S02/S06/T94
	259	P092	10,000	T	D80/T04/T01/S01/S02/S06/T94
	260	P093	10,000	T	D80/T04/T01/S01/S02/S06/T94
	261	P094	10,000	т	D80/T04/T01/S01/S02/S06/T94
	262	P095	50,000	T	D80/T04/T01/S01/S02/S06/T94
	263	P096	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	264	P097	10,000	T	D80/T04/T01/S01/S02/S06/T94
	265	P098	10,000	Т	D80/T04/T01/S01/S02/S06/T94
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i y		AZEPA	S ESTIMATED	COUNTROES:	D.Protess
	Line.	HAZARDOLIS WASTENG	DESCRIPTION OF	(Enter code)	(r)@ROCESSCODES(Enter Code); 2) Process (Description) [Maccade Enterprise of U(II)]
3,3%	ninper	Equir Codé)		\$530320 State State	
	267	P101	10,000	T	D80/T04/T01/S01/S02/S06/T94
'	268	P102	10,000	T	D80/T04/T01/S01/S02/S06/T94
	269	P103	50,000	T	D80/T04/T01/S01/S02/S06/T94/X02
	270	P104	10,000	T	D80/T04/T01/S01/S02/S06/T94/X02
	271	P105	50,000	T	D80/T04/T01/S01/S02/S06/T94
	272	P106	10,000	T	D80/T04/T01/S01/S02/S06/T94
	273	P108	10,000	T	D80/T04/T01/S01/S02/S06/T94
	274	P109	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	275	P110	10,000	T	D80/T04/T01/S01/S02/S06/T94/X02
	276	PIII	10,000	T	D80/T04/T01/S01/S02/S06/T94
	277	P112	50,000	Т	D80/T04/T01/S01/S02/S06/T94
	278	P113	10,000	T	D80/T04/T01/S01/S02/S06/T94/X02
	279	P114	10,000	T	D80/T04/T01/S01/S02/S06/T94/X02
	280	P115	10,000	T	D80/T04/T01/S01/S02/S06/T94/X02
	281	P116	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	282	P118	10,000	T	D80/T04/T01/S01/S02/S06/T94
	283	P119	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	284	P120	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	285	P121	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	286	P122	10,000	T	D80/T04/T01/S01/S02/S06/T94
	287	P123	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	288	U001	10,000	T	D80/T04/T01/S01/S02/S06/T94
	289	U002	10,000	T	D80/T04/T01/S01/S02/S06/T94
)	290	U003	10,000	Т	D80/ T04/T01/S01/S02/S06/T94
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		9 12:56 FR US		1 702 553 2125 TO 19094822272 P.16
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	A EFA	EESUMATES	C UNIT OF	Diprocession 2.1
<u>cine</u>	HAZARDONS WASTENES	ANNUAL SUANNITY OF	Entervals.	FTPROCESSCORES(Enter-Gode) (2) From a Discription (Bita code is not entered in CRI)
Number	(Emer.Code)	#ASTE	3//////////	
292	U005	10-000	T	D80/T04/T01/S01/S02/S06/T94
293	U006	50,000	T	D80/T04/T01/S01/S02/S06/T94
294	U007	10,000	T	D80/T04/T01/S01/S02/S06/T94
295	U008	10,000	T	D80/T04/T01/S01/S02/S06/T94
296	U009	10,000	Т	D80/T04/T01/S01/S02/S06/T94
297	U010	10,000	T	D80/T04/T01/S01/S02/S06/T94
298	U011	10,000	T	D80/T04/T01/S01/S02/S06/T94
299	<b>U</b> 012	10,000	T	D80/T04/T01/S01/S02/S06/T94
300	U014	10,000	Т	D80/T04/T01/S01/S02/S06/T94
301	U015	10,000	T	D80/T04/T01/S01/S02/S06/T94
<b>VIII</b> 02	U016	10,000	T	D80/T04/T01/S01/S02/S06/T94
303	U017	10,000	T	D80/T04/T01/S01/S02/S06/T94
304	U018	10,000	T	D80/T04/T01/S01/S02/S06/T94
305	U019	10,000	T	D80/T04/T01/S01/S02/S06/T94
306	U020	50,000	T	D80/T04/T01/S01/S02/S06/T94
307	U021	10,000	T	D80/T04/T01/S01/S02/S06/T94
308	U022	10,000	T	D80/T04/T01/S01/S02/S06/T94
309	U023	50,000	T	D80/T04/T01/S01/S02/S06/T94
310	U024	10,000	T	D80/T04/T01/S01/S02/S06/T94
311	U025	10,000	т	D80/T04/T01/S01/S02/S06/T94
312	U026	10,000	ī	D80/T04/T01/S01/S02/S06/T94
313	U027	10,000	т	D80/T04/T01/S01/S02/S06/T94
314	U028	10,000	т	D80/T04/T01/S01/S02/S06/T94
315	U <b>02</b> 9	50,000	T	D80/T04/T01/S01/S02/S06/T94
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ì		arber( <del>Fire</del> riors			702 553 2125 TO 19094822272 P.17  Secondary (D: Number (Extension: Page 7)
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	Membes	(Enter 2004)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	317	U031	10,000	т	D80/T04/T01/S01/S02/S06/T94
	318	U032	10,000	T	D80/T04/T01/S01/S02/S06/T94
	319	U033	50,000	T	D80/T04/T01/S01/S02/S06/T94
	320	U034 _	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	321	U035	10,000	T	D80/T04/T01/S01/S02/S06/T94
	322	U036	10,000	T	D80/T04/T01/S01/S02/S06/T94
	323	U037	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	324	U038	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	325	U039	10,000	T	D80/T04/T01/S01/S02/S06/T94
	326	U041	10,000	T	D80/T04/T01/S01/S02/S06/T94
WHY!	327	U042	10,000	T	D80/T04/T01/S01/S02/S06/T94
	328	U043	50,000	T	D80/T04/T01/S01/S02/S06/T94
	329	U044	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	330	U045	10,000	T	D80/T04/T01/S01/S02/S06/T94
	331	U046	10,000	T	D80/T04/T01/S01/S02/S06/T94
	332	U047	10,000	T	D80/T04/T01/S01/S02/S06/T94
	333	U048	10,000	Ŧ	D80/T04/T01/S01/S02/S06/T94
	334	U049	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	335	U050	10,000	T	D80/T04/T01/S01/S02/S06/T94
	336	U051	10,000	T	D80/T04/T01/S01/S02/S06/T94
	337	U052	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	338	U053	10,000	T	D80/T04/T01/S01/S02/S06/T94
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	N V	T 3 3 0	)   0   1   0	0 0 0	
;		A JEFA	SESTIMATED	COUNTRY OF	<u>Difficess</u>
	Line	HAZARBOUS WASTENDL	AND ALL	(Enter-cola)	GERRGCESSGERS(Enter Code) (219-001-53 Description) Uffacede sonot entered to Date
	Number	(Ester (20de)	WASTER		
		****	10.000	Т	D80/T04/T01/S01/S02/S06/T94
•	342	U058	10,000	T	D80/T04/T01/S01/S02/S06/T94
	343	U059	10,000	T	D80/T04/T01/S01/S02/S06/T94
	344	U060	10,000		D80/T04/T01/S01/S02/S06/T94
	345	U061	10,000	T	D80/T04/T01/S01/S02/S06/T94
	346	U062	10,000	T T	D80/T04/T01/S01/S02/S06/T94
į	347	U063	10,000	T	D80/T04/T01/S01/S02/S06/T94
	348	U064	10,000	T	D80/T04/T01/S01/S02/S06/T94
	349	U066	10,000	_	
	350	U067	10,000	T	D80/T04/T01/S01/S02/S06/T94
	351	U068	10,000	T	D80/T04/T01/S01/S02/S06/T94
	352	U069	50,000	T	D80/T04/T01/S01/S02/S06/T94
	353	U070	10,000	Τ	D80/T04/T01/S01/S02/S06/T94
	354	U071	10,000	T	D80/T04/T01/S01/S02/S06/T94
,	355	U072	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	356	<b>Ū073</b>	10,000	T	D80/T04/T01/S01/S02/S06/T94
	357	U074	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	358	U075	50,000	Т	D80/T04/T01/S01/S02/S06/T94
	359	U076	10,000	Т	D80/T04/T01/S01/S02/S06/T94
į	360	U077	10,000	T	D80/T04/T01/S01/S02/S06/T94
	361	U078	10,000	T	D80/T04/T01/S01/S02/S06/T94
	362	U079	10,000	Ť	D80/T04/T01/S01/S02/S06/T94
	363	U080	10,000	T	D80/T04/T01/S01/S02/S06/T94
	364	U081	10,000	T	D80/T04/T01/S01/S02/S06/T94
	365	U082	10,000	T	D80/T04/T01/S01/S02/S06/T94
	366	U083	10,000	T	D80/T04/T01/S01/S02/S06/T94
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Secretary Police Care from Page 11: ERFIS Number (Enteriment page 7) N | V | T | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 XIV Description of Hazardous Wastes (Continued) E'ESTHATED ANNUAL D.Process COUNTY OF S A E A EAZARDOUS MEASURE (Entertotal WASTEND DEARTHY OF WASTE Number Enter Code D80/T04/T01/S01/S02/S06/T94 10,000 T 367 U084 T D80/T04/T01/S01/S02/S06/T94 368 U085 10.000 50,000 T D80/T04/T01/S01/S02/S06/T94 369 U086 D80/T04/T01/S01/S02/S06/T94 370 U087 10.000 T T 10,000 D80/T04/T01/S01/S02/S06/T94 371 U088 T 10,000 D80/T04/T01/S01/S02/S06/T94 372 U089 T D80/T04/T01/S01/S02/S06/T94 373 **U090** 10.000 T D80/T04/T01/S01/S02/S06/T94 374 U091 10,000 10,000 Ţ 375 U092 D80/T04/T01/S01/S02/S06/T94 U093 10.000 T 376 D80/T04/T01/S01/S02/S06/T94 377 U094 10,000 T D80/T04/T01/S01/S02/S06/T94 Υ 378 **U095** 10,000 D80/T04/T01/S01/S02/S06/T94 379 U096 50,000 T D80/T04/T01/S01/S02/S06/T94 380 U097 50,000 T D80/T04/T01/S01/S02/S06/T94 381 **U098** 10,000 T D80/T04/T01/S01/S02/S06/T94 382 **U099** 10,000 T D80/T04/T01/S01/S02/S06/T94 383 U101 10,000 T D80/T04/T01/S01/S02/S06/T94 384 U102 10,000 T D80/T04/T01/S01/S02/S06/T94 385 U103 10,000 T D80/T04/T01/S01/S02/S06/T94 386 U105 10,000 Ţ D80/T04/T01/S01/S02/S06/T94 387 U106 10.000 Ţ D80/T04/T01/S01/S02/S06/T94 388 U107 10,000 Ţ D80/T04/T01/S01/S02/S06/T94 389 U108 T 50,000 D80/T04/T01/S01/S02/S06/T94 390 U109 50,000 T D80/T04/T01/S01/S02/S06/T94 391 **U110** 10,000 T D80/T04/T01/S01/S02/S06/T94

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	,,	FR US ECULUG		(2 2 2 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2
2000		page(i)	**************************************	Securidary D. Neisber (Esternicum Rägent)
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	A: E-A HAZARDOUS	ESSUMATED.	CLUNITOS MEASURES	DProcess:
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700	77311	10.000	Ţ	D80/T04/T01/S01/S02/S06/T94
392	U111	10,000	T	D80/T04/T01/S01/S02/S06/T94
393	U112	10,000	T	D80/T04/T01/S01/S02/S06/T94
394	U113 U114	10,000	T	D80/T04/T01/S01/S02/S06/T94
395 396	U115	50,000	T	D80/T04/T01/S01/S02/S06/T94
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397	U116	10,000	T	D80/T04/T01/S01/S02/S06/T94
398	U117	10,000	T	D80/T04/T01/S01/S02/S06/T94
399	U118	10,000	T T	D80/T04/T01/S01/S02/S06/T94 D80/T04/T01/S01/S02/S06/T94
400 401	U119 U120	10,000	T	D80/T04/T01/S01/S02/S06/T94
402	U121	10,000	T	D80/T04/T01/S01/S02/S06/T94
402	U121 U122	10,000	T	D80/T04/T01/S01/S02/S06/T94
404	U122	10,000	T	D80/T04/T01/S01/S02/S06/T94
405	U124	10,000	T	D80/T04/T01/S01/S02/S06/T94
406	U125	10.000	T	D80/T04/T01/S01/S02/S06/T94
407	U126	10,000	T	D80/T04/T01/S01/S02/S06/T94
408	U127	10,000	T	D80/T04/T01/S01/S02/S06/T94
409	U128	10,000	T	D80/T04/T01/S01/S02/S06/T94
410	U129	10,000	т	D80/T04/T01/S01/S02/S06/T94
411	U130	10,000	T	D80/T04/T01/S01/S02/S06/T94
412	U131	10,000	T	D80/T04/T01/S01/S02/S06/T94
413	U132	10,000	Т	D80/T04/T01/S01/S02/S06/T94
414	U133	50,000	T	D80/T04/T01/S01/S02/S06/T94
415	U134	10,000	Т	D80/T04/T01/S01/S02/S06/T94
416	U135	10,000	Т	D80/T04/T01/S01/S02/S06/T94
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442	U162	50,000	T	D80/T04/T01/S01/S02/S06/T94
443	U163			
444	U164	10,000	T	D80/T04/T01/S01/S02/S06/T94
445	U165 -	10,000	T	D80/T04/T01/S01/S02/S06/T94
446	U166	10,000	T	D80/T04/T01/S01/S02/S06/T94
447	U167	10,000	T	D80/T04/T01/S01/S02/S06/T94
448	U168	10,000	Т	D80/T04/T01/S01/S02/S06/T94
449	U169	10,000	T	D80/T04/T01/S01/S02/S06/T94
450	U170	10,000	T	D80/T04/T01/S01/S02/S06/T94
451	U171	10,000	Τ	D80/T04/T01/S01/S02/S06/T94
452	U172	10,000	T	D80/T04/T01/S01/S02/S06/T94
453	U173	10,000	T	D80/T04/T01/S01/S02/S06/T94
454	U174	10,000	T	D80/T04/T01/S01/S02/S06/T94
455	U176	50,000	. Т	D80/T04/T01/S01/S02/S06/T94
456	<b>U</b> 177	50,000	Т	D80/T04/T01/S01/S02/S06/T94
457	U178	10,000	T	D80/T04/T01/S01/S02/S06/T94
458	U179	10,000	T	D80/T04/T01/S01/S02/S06/T94
459	U180	10,000	T	D80/T04/T01/S01/S02/S06/T94
460	U181	10,000	T	D80/T04/T01/S01/S02/S06/T94
461	U182	10,000	T	D80/T04/T01/S01/S02/S06/T94
462	U183	10,000	T	D80/T04/T01/S01/S02/S06/T94
463	U184	10,000	· T	D80/T04/T01/S01/S02/S06/T94
464	U185	10,000	Т	D80/T04/T01/S01/S02/S06/T94
465	U186	10,000	Υ	D80/T04/T01/S01/S02/S06/T94
466	U187	10,000	τ	D80/T04/T01/S01/S02/S06/T94
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1	KEMPER	W. Chiesianne		30000	3000000 Address (1900)
	467	U188	10,000	T	D80/T04/T01/S01/S02/S06/T94
	468	U189	50,000	T	D80/T04/T01/S01/S02/S06/T94
	469	U190	10,000	T	D80/T04/T01/S01/S02/S06/T94
	470	U190	10,000	T	D80/T04/T01/S01/S02/S06/T94
	471	U192	10,000	ī	D80/T04/T01/S01/S02/S06/T94
	472	U193	10,000	T	D80/T04/T01/S01/S02/S06/T94
	473	U194	10,000	T	D80/T04/T01/S01/S02/S06/T94
	474	U196	10,000	T	D80/T04/T01/S01/S02/S06/T94
	475	U197	10,000	T	D80/T04/T01/S01/S02/S06/T94
	476	U200	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	477	U201	10,000	T	D80/T04/T01/S01/S02/S06/T94
	478	U202	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	479	U203	10,000	т	D80/T04/T01/S01/S02/S06/T94
	480	U204	10,000	Ţ	D80/T04/T01/S01/S02/S06/T94/X02
	481	U205	50,000	T	D80/T04/T01/S01/S02/S06/T94/X02
	482	U206	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	483	U207	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	484	U208	10,000	T	D80/T04/T01/S01/S02/S06/T94
	485	U209	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	486	U210	10,000	т	D80/T04/T01/S01/S02/S06/T94
	487	U211	10,000	Т	D80/T04/T01/S01/S02/S06/T94
	488	U213	10,000	T	D80/T04/T01/S01/S02/S06/T94
	489	U214	10,000	T	D80/T04/T01/S01/S02/S06/T94/X02
	490	U215	10,000	Ţ	D80/T04/T01/S01/S02/S06/T94/X02
	491	U216	10,000	T	D80/T04/T01/S01/S02/S06/T94/X02
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Number		WASTE		(Excode is not entered in
		10.000	_	
517 518	U353 U359	10,000 10,000	T T	D80/T04/T01/S01/S02/S06/T94 D80/T04/T01/S01/S02/S06/T94
710	(339	10,000	•	D60/104/101/301/302/300/194
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## FAX COVER SHEET

DATE: 3/9/99

TO: Erick

FAX NO: (200) 482-2272

FROM: Juan

FAX NO:

760-351-4025

PHONE NO: 760-344-9400

NUMBER OF PAGES INCLUDING COVER SHEET (

RE:

this is a copy of all of our acceptance.

### EPA Hazardous Waste Facility Permit Safety-Kleen (Westmorland), Inc.

#### TABLE 1

List of Acceptable Waste Codes for the Stabilization Treatment Unit (STU), Drum storage Area (DSA), Small Quantity Generator (SQG) and Lab Pack Building (LPB), and Landfills LC-2, LC-3, LC-4, and LC-5

### **EPA Waste Codes**

D001	D023**	F002*	K004*	K027*	K050*	K095**	K124**
D002	D024**	F003*	K005*	K028*	K051*	K096*	K125**
D003	D025**	F004*	K006*	K029*	<b>K052*</b>	K097*	K131
D004*	D026**	F005*	K007*	K030*	K060*	K098*	K132
D005	D027**	F006*	K008*	K031*	K061*	<b>X098*</b>	K136*
D006	D028**	F007*	K009*	K032*	K062*	K101*	
D007	D029**	F008*	K010*	K033*	K064	K102*	K141
D008	D030***	F009*	K011*	K034*	K065	K103*	K142
D009*	D031**	F010*	K013*	K035*	K066	K106*	K143
D010	D032**	F011*	K014*	K036*	K069*	K107	K144
D011	D033**	F012*	K015*	K037*	K071*	K108	K145
D012*	D034**	F019*	K016*	K039*	K073*	K109	K146
D013*	D035**	F024*	K017*	K040*	K083*	K110	K147
D014*	D036**	F025*	K018*	K041*	K084*	K111*	K148
D015*	D037**	F032**	K019*	K042*	K085*	K112*	
D016*	D038**	F034	K020*	K043*	K086*	K113*	K156
D017*	D039**	F035	K021*	K044	K087*	K114*	K157
D018**	D040***	F037	K022*	K045*	K088	K115*	K158
D019**	D041***	F039	K023*	K046	K090	K116*	K159
D020**	D042***	K001*	K024*	K047	K091	K117**	K160
D021*	D043**	K002*	K025*	K048*	K093*	K118**	K161
D022*	F001*	K003*	K026*	K049*	K094*	K123**	

All P waste codes.

All U waste codes.

P - Waste codes as specified in 40 CFR 261.33(e)

U - Waste codes as specified in 40 CFR 261.33(f)

<sup>\*</sup> Land disposal restrictions in 40 CFR 268 (or non-RCRA treatment standards in CCR, Title 22, Articles 40 and 41, in the absence of EPA treatment standards) may require treatment other than stabilization (e.g., vitrification, incineration, etc.) of the wastewater and/or non-wastewater. Therefore, the Imperial Valley Facility may only stabilize treatment residues of these waste codes. Because treatment processes such as incineration handle multiple listed waste codes (e.g., F006, F024, K010, P077 and U004), the treatment residue may require stabilization to meet the most restrictive treatment standard (e.g., F024 treatment standard: incineration followed by stabilization).

EPA Hazardous Waste Facility Permit Safety-Kleen (Westmorland), Inc.

Due to the derived-from-rule (40 CFR 261.3(c)(2)), the treatment residues carry the original waste code or codes unless the treatment process incorporates an EPA approved delisting. The Imperial Valley Facility will retain copies of all notifications, certifications, and demonstrations received from generators or other storage, treatment, and/or disposal facilities (e.g., incinerators) that demonstrate compliance with all applicable land disposal restrictions (40 CFR 261.7(c)).

\*\*\* New RCRA Waste Codes - RCRA treatment standards not yet promulgated.

### California Waste Codes

711	751*	135*	231*	311*	471	571
<i>7</i> 21	<i>7</i> 91	141	232*	322	481	581
722	<i>7</i> 92	151	241*	351*	491*	591
723	121	161	251*	352*	511*	611*
724	122	162	252*	411	512	612
725	123	171	271	421	513*	613
726	131	172	272*	431	521	
727	132	181	281	<del>44</del> 1	5 <del>4</del> 1	
728	133	222*	291*	451	551	
741*	134	223*	541	461	561	

<sup>\*</sup> The treatment technology proposed by the owner and/or operator, i.e., stabilization, may not be effective for these wastes with organic constituents.

The maximum annual quantity of hazardous waste accepted at the facility shall be 440,000 gross tons.



## FAX COVER SHEET

DATE: 3/1/99

TO: EVICIC

FAX NO: (909) 482-22.72

FAX NO: 760-351-4025

PHONE NO: 760-344-9400

NUMBER OF PAGES INCLUDING COVER SHEET (

RE: Copy of PartA.

Safety-Kleen (Westmorland), Inc. 5295 South Garvey Road • P.O. Box 158 • Westmorland, CA 92281 Please print or type with EUTE type (12 characters per inith) in the unshaded areas only

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EPA I.D. Number (enter from page 1)	Secondary ID Number (enter from page 1)
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VII. Operator Information (see Instructions)	at a sign of the sign of the sign of
Name of Operator	
LAIDLAW ENVSVS	( I M P V L Y ) I N C
Street or P.O. Box	
P O B O X 1 5 8 5 2 9 5 S	D U T H G A R V E Y R D
City or Town-	State ZIP Code
WESTMORLAND	C A 9 2 2 8 I -
Phone Number (area code and number) B. Ope	erator Type C. Change of Operator Date Changed Indicator Month Day Year
6 1 9 - 3 4 4 - 9 4 0 0	P Yes X No 0 19 1 4 9
VIII. Facility Owner (see instructions)	
A. Name of Facility's Legal Owner	MENTAL SERVICE
Street or P.O. Bcx P O B O X I 5 8 5 2 9 5 S	OUTH GARVEY RD
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XI. Nature of Business (provide a brief description)

The Imperial Valley Facility is a Class I disposal site engaged in the storage, treatment, and disposal of hazardous and non-hazardous waste.

## XII. Process - Codes and Design Capacities

- A. PROCESS CODE Enterthe code from the list of process codes below that best describes each process to be used at the facility.

  Twelve lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. If a process will be used that is not included in the list of codes below, then describe the process (including its designation) in the space provided in them. 111. capacity) in the space provided in item XIII.
- BL PROCESS DESIGN CAPACITY For each code entered in column A, enter the capacity of the process.
- AMOUNT -Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process unit.
- enforcement action) enter the total amount of waste for that process unit.

  2. UNIT OF MEASURE For each amount entered in column B(1), enterthe code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.
- PROCESS TOTAL NUMBER OF UNITS—Enter the total number of units used with the corresponding process code.

PROCE	SS PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	UNIT OF MEASURE	UNIT OF MEASURE CODE
D79 D80 D81 D82 D83 S01 S02 S03 S04 T01 T02 T03	DISPOSAL: INJECTION WELL  LANDFILL LAND APPLICATION OCEAN DISPOSAL SURFACE IMPOUNDMENT  STORAGE: CONTAINER (barrel, drum, etc.) TANK WASTE PILE SURFACE IMPOUNDMENT IREATMENT: TANK SURFACE IMPOUNDMENT INCINERATOR	GALLONS; LITERS; GALLONS PER DAY; OR LITERS PER DAY ACRE-FEET OR HECTARE-METER ACRES OR HECTARES GALLONS PER DAY OR LITERS PER DAY GALLONS OR LITERS  GALLONS OR LITERS  GALLONS OR LITERS CUBIC YARDS OR CUBIC METERS GALLONS OR LITERS  GALLONS PER DAY OR LITERS PER DAY GALLONS PER DAY OR LITERS PER DAY SHORT TONS PER HOUR; METRIC TONS PER HOUR; GALLONS PER HOUR; LITERS PER HOUR; OR BTU'S PER HOUR;	GALLONS  GALLONS PER HOUR  GALLONS PER DAY  LITERS  LITERS PER HOUR  LITERS PER DAY  SHORT TONS PER HOUR  METRIC TONS PER DAY  METRIC TONS PER DAY  METRIC TONS PER DAY  METRIC TONS PER HOUR  KILOGRAMS PER HOUR  CUBIC YARDS	G L H V W N S J R
T0 <i>4</i>	OTHER TREATMENT (Use for physical, chamical, Marmal or biological treatment processes not occurring in tanks, widese impoundment or inclinerators. Describe the processes in the space provided in Irem XIII.)	GALLONS PER DAY; LITERS PER DAY; POUNDS PER HOUR; SHORT TONS PER HOUR; KILOGRAMS PER HOUR; METRIC TONS PER DAY; METRIC TONS PER HOUR; OR SHORT TONS PER DAY	CUBIC METERS  ACRES  ACRE-FEET  HECTARES  HECTARE-METER  BTU'S PER HOUR	8 A O

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EPA I.D. Number (enter from page 1)	Secondary ID Number (enter from page 1)
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XIV. Description of Hazardous Wastes	

- A. EPA HAZARDOUS WASTE NUMBER Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

CODE	METRIC UNIT OF MEASURE	CODE
P	KILOGRAMS	κ
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If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

## D. PROCESSES

## 1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item XII A, on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

Fornon-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item XII A, on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that processes that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

- J. Enter the first two as described above.
- Z. Enter "000" in the extreme right box of Item XIV-D(I).
- 3. Enter in the space provided on page 7, Item XIV-E, the fine number and the additional code(s).
- 2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form (D.(2)).

NOTE HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

- 1. Selectione of the EPA Hazardous Waste Numbers and enterit in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- 2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation, in addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an inclinerator and disposal will be in a landfill.

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# Salesco Systems U. S. A.

March 18, 1999

Glenn Androsko TRC Environmental Solutions 21 Technology Drive Irvine, CA 92618

Dear Mr. Androsko:

Pursuant to a request from your Regional Sales Manager, Ms. Pam Lynd, I am providing you with information regarding regulations under the Toxic Substances Control Act (TSCA) that govern the disposal of PCBs and PCB Items. Currently, Salesco holds an Alternate Destruction and Commercial Storage permit with the EPA for PCBs.

Although Salesco has held this permit since 1994, the final TSCA disposal rule (June 29, 1998) requires only a commercial storage permit for those facilities decontaminating PCB Items. PCB Items must be disposed of in accordance with disposal options under 40 CFR Part 761.60(b) or in accordance with decontamination provisions under 40 CFR Part 761.79. As previously stated, no disposal approvals are required under the decontamination provisions and no maximum allowable PCB concentrations are specified. In fact, specific procedures are provided for PCB concentrations at less than or equal to 10,000 ppm and procedures are provided for PCB concentrations greater than 10,000 ppm, with no maximum concentration specified.

I hope this response satisfies your questions regarding disposal of PCB Items under TSCA regulations. Should you require additional information, you may contact me at 800-368-9095. Thank you.

Sincerely,

SALESCO SYSTEMS USA, INC

Karyn J. Fought, Ph.D.

**Environmental Affairs Specialist** 



# Salesco Systems, USA FAX TRANSMISSION COVERSHEET

FROM:

Pamela J. Lynd

Phone: (619) 222-5808

Salesco System USA, Inc. 2925 Emerson Street, Suite 312 Fax:

(619) 222-3722

San Diego, CA 92106

TO:

Marco

Phone: (800)788-2167

Consolidated Waste

Fax:

1-909-482-2272

DATE:

Wednesday, March 17, 1999

PAGES:

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SUBJECT:

Storage permits

In our PCB audit book, blue cover, is a copy of our PCB permits, insurance, etc. I am faxing copies as well.

The generator has 1 year from the date items are taken out of service to have it disposed of. If we receive material close to that one year time period we "red tag" (special handling) and expedite the processing of the material.

Please call me at 619-222-5808 or Karen Fought, our regulatory compliance manager, 1 800-368-9095, if you need further information.

**A** 

# FACT SHEET

PCB WASTE STORAGE
AND RECYCLING FACILITY

The Salesco Phoenix complex (Buildings 1, 2 and 3) is located 6.5 miles west of the central Phoenix business district.

SITE LOCATION 5736 West Jefferson Street Phoenix, Arizona 85043 Telephone: 602-233-2955

Fax: 602-415-3030

# APPLICABLE PERMITS

Federal EPA Generator ID #AZD 983 473 539 Commercial Storer of PCB Waste Issued by EPA Region IX, 12/15/1994 [40 CFR 761.65]

- NPDES Stommwater General Permit, Phoenix Complex Issued by the FPA, 12/31/1992
- Laboratory Licensure for PCB Analysis
  Issued by the State of Arizona, 8/3/1995

Alternate Disposal Technology Issued by EPA Region IX, 12/15/1994 [40 CFR 761.60(e)]

Air Quality Operating Permit #95-0050
Issued by Maricopa County, AZ, 8/7/1995

# FACILITY DESIGN INFORMATION

Located on approximately 80,000 sf. parcel which is zoned A-1 Light Industrial. The complex consists of 3 contiguous one-story buildings each with roughly 8,000 sf. plant area and 1,000 sf. office area. Facility is sited and developed in accordance with selected criteria governing the siting and permitting of TSCA Commercial Storage and Disposal Facilities outlined within 40 CFR 761,65. These criteria include containment, location standards and facility design.

NOT located in a 100-year flood plain or within the boundaries of an NPL superfund site.

# PERMITTED WASTE STORAGE WASTE RECYCLING

Permitted to receive TSCA-regulated PCB waste up to a maximum storage capacity of 40,500 gallons of PCB waste and 7,700 gallons of non-PCB waste under the terms of the Commercial Storage approval. The Alternative Disposal Technology approval allows for on-site recycling of PCB-contaminated (50 - 499 ppm PCB) articles and PCB-containing ballasts (50 ppm and greater PCB). Wastes accepted are:

- PCB and non-PCB fluorescent lamp ballasts
- PCB Articles (capacitors, transformers, oil-filled bushings, etc.)
- PCB debris (dirt, water, PPE, etc.)
- Non-PCB (<50 ppm PCB) articles, containers, debris</li>

Salesco Systems U. s. A. **CLOSURE PLAN/** CLOSURE FUNDING

In accordance with the facility's storage and processing agreements and the requirements set forth in 40 CFR 761.65 (e)(f) and (g), a Closure Plan, Closure Cost Estimate and Financial Assurance have been prepared and approved for the facility.

The facility is scheduled to close December 31, 2004. The financial assurance mechanism established is a Trust Agreement through Security Investment Management and Trust Company in Phoenix, naming the USEPA, Region IX, as beneficiary.

# **FACILITY OPERATING PLANS/ CONTINGENCY PLAN**

The following plans have been developed specifically for Salesco and are available for inspection at the facility.

- Waste and Material Analysis Plan
- SPCC Plan
- Health & Safety Plan

- Contingency Plan
- Laboratory QA/QC Program
- Closure Plan

# INSURANCE

Salesco maintains the following insurance coverages in the amounts indicated:

**Environmental Pollution Liability** Comprehensive General Liability Comprehensive Automobile Workmens' Compensation Employer's Liability

\$5,000,000 per claim, \$10,000,000 aggregate \$10,000,000 combined single limit per occurrence \$10,000,000 combined single limit per occurrence Statutory Limits

\$1,000,000 combined single limit per occurrence

Certificates of Insurance furnished to confirmed customers upon request.

# **WASTE STREAM** APPROVAL **PROCEDURES**

PCB and non-PCB waste acceptance procedure involves the following:

- Completion of a Salesco generator's Material Profile sheet
- Establishment of a credit account or alternate payment method
- Execution of a mutually acceptable contract/purchase order

# SERVICES/ **CUSTOMER ASSISTANCE**

Salesco provides the following services to PCB and non-PCB waste customers throughout the United States:

- Technical/Regulatory Assistance
- Container Delivery
- Labeling, Loading and Transportation
- Recycling and Disposal
- Laboratory Analysis

**National Customer Service Office** 5736 West Jefferson Street Phoenix, Arizona 85043

Telephone: 800-368-9095

Fax:

602-415-3030



5736 West Jefferson Street • Phoenix, Arizona 85043

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# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX

DEC 2 0 1904

75 Hawthorne Street San Francisco, CA 94105-3901

DEC 15 1994

Mr. Frank D. Sales, Jr. President Salesco Systems USA, Inc.-AZ 5736 West Jefferson Phoenix AZ 85043

Re: Commercial PCB Storage and Lighting Ballast Recycling Approval EPA ID AZD 983473539

Dear Mr. Sales:

This letter, with enclosed conditions, serves as written approval pursuant to 40 CFR Parts 761.65 (d)(1) and 761.60 (e) for Salesco Systems USA, Inc.-AZ to commercially store PCBs and PCB articles and to recycle and dispose of PCB-contaminated lighting ballasts at 5736 West Jefferson, Phoenix, Arizona.

The Environmental Protection Agency (EPA) Region IX has reviewed your August 17, 1994 application to commercially store PCBs and to recycle and dispose of PCBcontaminated lighting ballasts and has determined that the Salesco Systems USA, Inc.-AZ operation at 5736 West Jefferson, Phoenix, Arizona will not pose an unreasonable risk of injury to health or the environment. This approval incorporates the closure plan submitted in the application and amendments offered in response to EPA's notice of deficiencies.

This approval shall expire on December 31, 1999 unless the applicant makes a written request for renewal of this approval at least 180 days prior to the expiration date.

The total amount of PCB materials and PCB Items may not exceed 40,500 gallons of PCB waste and 7,700 gallons of non-PCB waste nor the quantity whose disposal cost would be more than Salesco's closure cost estimate for the maximum PCB inventory.

For PCB analyses, EPA approves the use of Salesco-AZ's on-site laboratory so long as the certification by the Arizona Department of Health Services remains in effect. Salesco-AZ may use any other laboratory certified for PCB analysis.

Salesco-AZ has chosen the trust fund as their financial assurance mechanism for closure. Acceptable documentation must be provided to EPA within 30 days from the date of this approval that the first payment into the trust has been received by the trustee. This first

Printed on Recycled Paper

payment must be sufficient to meet the requirements of 40 CFR 761.65 (g)(1). Failure to meet this requirement shall be grounds for termination of this approval and Salesco-AZ will be required to initiate closure of the facility.

In addition to Region IX, a copy of the Annual Report should also be sent to:

Mr. Thomas G. Simons
Office of Pollution Prevention and Toxics
US EPA Headquarters 7404
401 M Street
Washington DC, 20460

If you have any questions regarding this approval, please contact Yosh Tokiwa of my staff at (415) 744-1109.

Sincerely,

David P. Howekamp

Director

Air and Toxics Division

Enclosure:

cc: David K. Hanneman, OPPT



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

# REGION IX

# 75 Hawthome Street San Francisco, CA 94105-3901

in the Matter of Salesco Systems USA IncAZ Phoenix, AZ 85043	<ul> <li>Approval for Commercial Storage of</li> <li>Polychlorinated Biphenyls (PCBs) and</li> <li>Alternate Disposal of Lighting Ballasts</li> </ul>
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# AUTHORITY

This Approval to commercially store and process regulated Polychlorinated Biphenyl (PCB) contaminated materials and to separate and recycle Lighting Ballasts is issued pursuant to Section 6(e)(1) of the Toxic Substances Control Act (TSCA) of 1976 (Public Law No. 94-469) and the Federal PCB Regulations, 40 CFR 761.60 (e) and 761.70 (a) and (b) (48 CFR 13185, March 30, 1983).

# EFFECTIVE DATE

This approval shall be effective upon signature of the Director of Air and Toxics Division, EPA Region IX.

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# **DEFINITIONS**

All the terms and abbreviations used in this Approval shall have the meanings as defined in 40 CFR Section 761.3, EPA's "Guidelines for PCB Destruction Permit Applications and Demonstration Test Plans" (April 16, 1985) and "TSCA Guidance Manual for Commercial PCB Storage Facility Applications (October 18, 1989), unless the context clearly indicates otherwise or unless defined below for the purposes of this Approval.

- "Application" and "Salesco Systems USA-AZ Application" mean the August 17, 1994 Application, and subsequent modifications, which were submitted to EPA for PCB storage non-thermal alternate disposal process of PCBs.
- "Alternate Disposal Technology" means the process of separating PCB-contaminated potting material and capacitors from recyclable metal components of lighting ballasts.
- "ATD" means the Director, Air and Toxics Division, EPA Region IX.
- "EPA" means the United States Environmental Protection Agency, Region IX Office.
- "Destroy by Recycling" means destroying the original identity of the article by melting, grinding, etc., and reusing the material.
- "Lighting Ballast" means a device that controls the flow of electric current to fluorescent and high-intensity discharge (HID) lamps.
- "Parts per Million" (ppm) means mg per kilogram (mg/kg).
- "PCB-Containing Lighting Ballast" means any lighting ballast with potting compound containing, or presumed to contain, PCBs at or exceeding 50 ppm PCBs.
- "Potting Compound" means the tar-like substance used as an insulator in lighting ballasts. Some potting compounds contain PCBs.
- "Regional Administrator" means the Regional Administrator, EPA Region IX.
- "Salesco-AZ" means Salesco Systems USA, Inc.-AZ.
- "Salesco-AZ" and "Facility" mean the site located at 5736 W. Jefferson, Phoenix, AZ 85043 where the Salesco Systems USA, Inc.-AZ EPA-approved PCB storage and lighting ballast recycling and disposal site is located.

# 

# APPROVAL

Salesco Systems USA, Inc.-AZ has submitted an application to the Regional Administrator for commercial storage and alternate disposal of PCBs and PCB Items. Under 40 CFR 760.65 (i), the Regional Administrator is authorized to issue permits for activities involving PCBs and PCB wastes. This authority has been redelegated to the Director, Air and Toxics Division by Regional Order R9 1260.31.

- 1. Approval is granted to Salesco-AZ to commercially store and process regulated Polychlorinated Biphenyl (PCB)-contaminated articles and items and to separate PCB-containing potting material and capacitors from recyclable metal components of lighting ballasts as described in the Salesco-AZ Application and in accordance with this Approval and the Conditions of Approval as stated herein.
- 2. This Approval shall become effective upon signature of the Director of Air and Toxics Division, EPA Region IX and shall expire on December 31, 1999, unless revoked, suspended, or terminated in accordance with the Conditions of Approval stated herein.
- 3. Salesco-AZ has chosen the trust fund as their financial assurance mechanism for closure. Acceptable documentation must be provided to the EPA within 30 days from the date of this Approval that the first payment into the trust has been received by the trustee. This first payment must be sufficient to meet the requirements of 40 CFR 761.65(g)(1). Failure to meet this requirement shall be grounds for termination of this Approval and Salesco will be required to initiate closure of the facility.
- 4. To renew this Approval for for commercial PCB storage and recycling lighting ballasts. Salesco-AZ must apply to the EPA in writing at least 180 days but not more than 270 days prior to the expiration date of this Approval. EPA may require Salesco-AZ to submit additional information in connection with its application for renewal. The above-mentioned information will be reviewed by EPA to determine if this Approval is to be renewed.

# CONDITIONS OF APPROVAL

# A. GENERAL CONDITIONS

- 1. Salesco-AZ must comply with and operate in accordance with provisions of the PCB regulation 40 CFR 761, with the Conditions of Approval stated herein, and with the Salesco-AZ application and amendments which were submitted to and approved by the EPA.
- 2. Any departure from the Conditions of Approval, modifications of this Approval, or the Salesco-AZ application approved by the EPA, must receive prior written authorization from the ATD. Departure from the Conditions of Approval, from any modifications of this Approval, or from the Salesco-AZ Application approved by the EPA, without prior written approval by the ATD, will subject this Approval to revocation, suspension, or termination,

and will subject Salesco-AZ to enforcement action under TSCA. If at any time Salesco-AZ becomes aware of any departure from the PCB regulation, Conditions of Approval, modifications of this Approval, or the Salesco-AZ application, Salesco-AZ shall notify the ATD by telephone within 24 hours and shall submit a written report to the ATD describing the departure within five (5) working days.

- 2. EPA reserves the right to impose additional conditions to the Approval and to modify any condition. EPA may withdraw or modify this Approval if it has reason to believe that the continued operation of the storage and disposal activity or facility presents an unreasonable risk to-public health or the environment, if the EPA issues new regulations or standards for issuing PCB approvals, or for noncompliance with the Conditions of Approval or the PCB regulation (40 CFR 761).
- 3. Salesco-AZ shall provide upon request any information which the EPA deems necessary to determine whether cause exists for modification, revocation, suspension, or termination of this Approval. Failure to provide the above-mentioned information within five (5) working days of its request shall be deemed a violation of the Conditions of Approval.
- 4. Salesco-AZ is responsible for the actions of all Salesco-AZ employees, agents, and contractors who are involved in the operation of the storage and disposal facility. Compliance with the PCB regulation, the Conditions of Approval, modifications of this Approval, written notifications, and the Salesco-AZ application approved by the EPA, does not relieve Salesco-AZ of the responsibility to comply with all other applicable federal, state, and local laws and regulations.
- 5. Salesco-AZ shall allow inspection of the site, storage facility, recycling facility, and records relating to the facility and operations by the EPA authorized employees, agents, or contractors at any time to determine compliance with applicable statutes, regulations, Approval, and Conditions of Approval issued pursuant thereto. Any refusal by Salesco-AZ to allow access to the site and process, or refusal to provide copies of records shall be deemed a violation of the Conditions of Approval.
- 6. Salesco-AZ shall submit a written request to the ATD for a modification of this Approval to store PCBs and recycle PCB ballasts and its closure plan whenever:
  - a. there is to be a change in ownership, operating plans, or facility PCB storage area specifications,
  - b. there is a change in the expected date of closure (December 31, 2004),
  - c. unexepected events require modification of the approved closure plan,
  - d. changes in regulation require a more costly disposal method than that specified in the approved closure plan.
  - 7. At least thirty (30) days before transferring ownership of the facility, a notarized

shall be presumed to contain 50 ppm or greater PCB unless the material is demonstrated to contain less than 50 ppm. Such material may be demonstrated to contain less than 50 ppm PCBs by a composite sample of each batch unless 1) potting material known to contain PCBs at 50 ppm or greater was added to the batch or 2) material from a leaking PCB ballast was added to the batch.

6. Each batch of separated metal and nonmetal materials for PCB analysis shall be thoroughly mixed before sampling by one of the following sample collection procedures:

A sample may be taken of the material in each shipping container if the container contains one cubic yard of material or less.

A sample may be composited from subsamples taken from more than one shipping container, provided the composite is taken from no more material than is included in one shipment.

A sample may be composited from subsamples collected from material separated each day, provided the composite is taken from no more material than is included in one shipment. At least one subsample shall be taken of the separated material generated in a normal production day.

- 7. Porting material and separated non-metallic material at or 50 ppm or greater but less than 500 ppm shall be disposed of in a chemical waste land fill approved pursuant to 40 CFR 761.75 or an incinerator approved pursuant to 40 CFR 761.70.
- 8. Potting material and separated non-metallic material at or 500 ppm or greater shall be disposed of in an incinerator approved pursuant to 40 CFR 761.70.
- 9. PCB waste, as defined in 40 CFR 761.3, shall be stored and transported in appropriate packaging as specified by the United States Department of Transportation.
- 10. In the event further decontamination of the metal is required, Salesco-AZ must apply for a permit amendment for such change.

# C. STORAGE OF PCBs

- 1. Storage is limited to oil-filled electrical equipment, recovered dielectric fluids, drummed PCB solids and liquids, lighting ballasts, separated metal components, potting materials, separated non-metallic materials and capacitors removed from PCB ballasts, ballast processing and clean-up consumables listed in Salesco-AZ's application.
- 2. Storage of PCB and PCB Items are limited to the PCB storage area specified in the Salesco Application except PCB materials and PCB Items in transit to or from the Facility may remain outside the designated PCB storage area for a time not to exceed six (6) days.
- 3. Non-leaking PCB lighting ballasts and PCB articles may be stored temporarily outside the designated storage area for up to 30 days from the date of removal from service

affidavit signed by the transferee which states that the transferee will abide by all provisions of this Approval shall be submitted to the ATD. After receiving such notification and affidavit, and other such documents as EPA may require, EPA may issue an amended Approval substituting the transferee's name for the Salesco-AZ name, or EPA may require the transferee to apply for a new PCB storage and recycling Approval. The transferee shall not operate under the Approval until the ATD issues an Approval in the transferee's name.

- 8. This Approval is binding upon Salesco-AZ. Salesco-AZ shall be responsible hereunder for any violations by officers or employees of any company having a financial interest in Salesco-AZ.
- 9. For PCB analysis, EPA approves the use of Salesco-AZ's own on-site laboratory so long as the certification (Arizona Environmental License Number AZ0475) by the Arizona Department of Health Services remains in effect. Salesco-AZ may use any other laboratory certified for PCB analysis which is certified for PCB analysis.

# B. PROCESSING OF BALLASTS

The Salesco-AZ's PCB lighting ballast recycling and disposal process involves screening the ballasts, physically separating the metal components from associated PCB-contaminated potting compound and recycling the metals. Salesco-AZ shall meet the following work practice, operation, and other standards at all times during the operation of its facility:

- 1. Externally leaking ballasts and ballasts showing visual signs of leakage shall be excluded from recycling and disposed of as TSCA waste. Separation of leaking ballast components is not permitted.
- 2. All PCB-contaminated wastes in the form of non-leaking capacitors, potting compound, and associated debris and solid consumables such as personal protective equipment, disposable sampling templates, sorbents, wipes, solvents and/or solvent still bottoms, etc., shall be disposed of as TSCA waste in a chemical waste land fill approved pursuant to 40 CFR 761.75 or an incinerator approved pursuant to 40 CFR 761.70.
- 3. Leaking PCB capacitors from PCB ballasts shall be disposed of in an incinerator approved pursuant to 40 CFR 761.70.
- 4. Separated metal components shall be classified according to the amount of PCBs on the surface of the metal. Separated metal components with PCB levels at one hundred micrograms per one hundred square centimeters (100 ug/100 cm²) or 50 ppm or less following processing may be recycled or disposed of as solid waste. Metals above 100 ug/100 cm² may be reprocessed or shall be disposed of as solid waste. For recycling, the original identity of the article shall be destroyed by melting, grinding, etc. Metal components with PCB levels at or below 10 ug/100 cm² or below 2 mg/kg following processing may be reused.
  - 5. Potting material and separated non-metallic material removed from PCB ballasts

provided the ballasts are placed in a covered, marked, non-leaking container and a note is attached to the container indicating the date of the item(s) removal from service.

- 4. Leaking PCB lighting ballasts may be temporarily stored outside the designated storage area for up to 30 days from the date of removal from service provided the ballasts are placed in a covered, non-leaking container that contains sufficient sorbent material to absorb any liquid PCBs remaining in the PCB ballasts and a note is attached to the container indicating the date the item(s) were removed from service.
- 5. The total amount of PCB materials and PCB Items at the Facility whether in or outside the designated PCB storage area may not exceed 40,500 gallons of PCB waste and 7,700 gallons of non-PCB waste nor the quantity whose disposal cost would equal the estimated cost of disposal of the maximum PCB inventory set forth in Salesco's closure cost estimate.
- 6. All equipment used for handling PCBs and PCB Items that come in direct contact with PCBs should be marked with the PCB  $M_L$  label (40 CFR 761.45 (a). The PCB  $M_S$  label may be substituted if the equipment cannot accommodate the  $M_L$  label.
- 7. Per 40 CFR 761.65 (c)(4), no item of movable equipment that is used for handling PCBs and PCB Items in the storage and recycling facilities and that comes in direct contact with PCBs shall be removed from the storage and recycle facility area unless it has been decontaminated as specified in § 761.79.
- 8. Any spill onto absorbent material contained within a containment pan shall be cleaned by removal of the absorbent material within 48 hours of the spill. The absorbent material must be treated as PBC regulated waste. All other spill inside or outside of the PBC Storage area shall be remediated as a specified in D4 of this approval.
- 9. Access to the PCB storage and waste handling activities shall be restricted to those Salesco employees on the signature sheet specified in D2, federal, state and local inspectors, and emergency response personnel.

# D. WORKER PROTECTION

- 1. Salesco-AZ shall comply with the Safety and Hygiene program of the approved application.
- 2. Salesco-AZ's application includes a training plan in the form of a training manual for training workers. Within thirty (30) days of EPA permit approval, Salesco-AZ must train its employees as specified in the manual. New employees must be trained as specified in the manual prior to entering the PCB storage and ballast recycling areas. In addition to addressing the regulatory requirements of 40 CFR 761, the training must also include the Prevention Control and Countermeasure (SPCC) Plan. A signature sheet must be used to verify personnel participation.

- 3. All plant operations personnel must enter and leave the PCB processing facility through a clean-in/clean-our facility.
- 4. Surfaces of the non-processing and clean-in/clean-out areas shall not exceed 10 ug/100 cm<sup>2</sup> PCBs.
- 5. In the event levels of contamination in excess of those referenced in Paragraph D4, Salesco-AZ shall immediately begin decontamination of the affected area(s). Cleanup to below the referenced levels shall be completed within 48 hours of the initial discovery of the contamination.

# E. CONTINGENCY PLANS and EMERGENCY PROCEDURES

- 1. Salesco-AZ shall follow the Spill Prevention Control and Countermeasures Plan (SPCC Plan) in the approved application whenever there is a fire, explosion, or release of PCBs or hazardous constituents.
- 2. A copy of the Contingency Plan and all revisions to the Plan are to be maintained at the Salesco-AZ site. A copy of the Training Manual and this Approval shall also be maintained on-site. Also lists of emergency contacts, telephone numbers, and emergency exit routes shall be posted in prominent locations throughout the facility.
  - 3. The facility shall at a minimum be equipped with the following:
    - (a) an internal communications or alarms system capable of providing immediate emergency instruction (voice or signal) to facility personnel,
    - (b) devices, such as a telephone which is immediately available at the scene of operations or a hand-held two-way radio, capable of summoning emergency assistance from local police departments, fire departments, or State or local emergency response teams,
    - (c) portable fire extinguishers, fire control equipment, spill control equipment, and decontamination equipment.
    - (d) water at adequate volume and pressure to supply fire hose streams or foam equipment.
- 4. Salesco-AZ shall at a minimum test and maintain the equipment specified above as recommended by the manufacturer to assure its proper operation in time of emergency. In the event any of the equipment specified above was manufactured by Salesco-AZ, Salesco-AZ shall establish and follow a testing and maintenance plan for those manufactured items.
- 5. Whenever PCBs are being poured, mixed, or otherwise handled, Salesco-AZ shall ensure that all personnel involved in the operation will have immediate access to an internal alarm or emergency communication device, either directly or through visual or voice contact with another employee.

- 6. At all times, there shall be at least one (1) employee either at the Salesco-AZ facility or on call who has the responsibility for coordinating all emergency response measures. This employee shall have immediate access to the entire facility and to a device such as a telephone, cellular phone or a hand-held two-way radio immediately available at the scene of operation and capable of summoning external emergency assistance. This employee must have the authority to commit the resources needed to carry out the Contingency Plan.
- 7. Adequate aisle space shall be maintained to allow for unobstructed access and egress by personnel, fire protection equipment, and decontamination equipment to all PCB items stored on-site.
- 8. All facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment shall be inspected at the frequencies referenced in Section XI of the approved application. All such equipment not specifically referenced in Section XI of the approved application must be inspected at least once a month to assure its proper operation. All emergency equipment inspection and maintenance records must be maintained at the Salesco-AZ site and made available to the EPA upon request.
- 9. Prior to operation, Salesco-AZ shall provide a written description of recycling and storage activities, stored materials, contingency plans, and emergency procedures, as described in the EPA-approved application, to local fire and police departments, hospitals, and state and local emergency response teams that may be called upon to provide emergency services.
- 10. In the event an authorized facility operator of Salesco-AZ believes, or has reason to believe, that any detectable quantities of PCBs, chlorinated solvents, or reagents have been released to the environment as a result of recycling and/or storage operation, the operation shall be terminated immediately, and the facility operator shall immediately inform the EPA emergency response personnel by telephone at (913) 236-3778. A full investigation into the cause of the incident and a detailed report shall be included in the daily operation records. A copy of this report describing the incident shall be submitted to the ATD by the close of business on the next regular business day following the incident. No additional material may be stored in the facility until the release problem has been corrected to the satisfaction of the EPA, and the ATD has provided written notice of such determination.
- 11. Salesco-AZ shall immediately report to EPA if unauthorized entry at the facility occurred which caused PCBs to be discharged, the nature of the problem, if any, that resulted from this occurrence, and corrective action taken by the facility to prevent future occurrences. This includes any tampering, destruction, or loss at the facility which caused release of PCBs.
- 12. Salesco-AZ shall review and immediately amend, if necessary, the SPCC Plan and Contingency Plan whenever:
  - (a) the Plan fails in an emergency,
  - (b) the facility changes in its design, construction, operation, maintenance, or other circumstances that materially increase the potential for fires,

explosions, or releases of PCBs or hazardous constituents, or from other responses necessary in an emergency,

- (c) the list of emergency coordinators changes,
- (d) the list of emergency equipment changes,
- (e) any major revision is warranted,
- (f) EPA determines that a revision to the Plan is necessary.

# F. RECORDKEEPING and REPORTING

- I. Salesco-AZ shall comply with all recordkeeping requirements outlined in the PCB Regulation, 40 CFR Part 761.
- 2. All PCB records, documents, and reports shall be maintained at one centralized location at the Salesco-AZ facility, and shall be made available for inspection by authorized EPA representatives. When Salesco-AZ ceases operations, all records, documents, and reports or certified copies thereof, shall be made available to EPA at the Salesco-AZ facility for a period of at least five (5) years following cessation of operations. If Salesco-AZ is unable to comply with this condition because it is no longer in control of the site, it shall comply by making the records, documents, and reports available at the location which is under control of Salesco-AZ nearest the site.
- 3. All records required by 40 CFR 761.180 and this Approval shall be written in ink or typed. Any modification or correction of the records must be initialed and dated by the supervisor in charge. If the recordkeeping is maintained by computer system, Salesco-AZ shall maintain monthly printouts of records pertaining to the process.
- 4. All records, documentation, and information relating to sampling, analysis, and quality assurance as required by this Approval shall be retained at the Salesco-AZ facility for a minimum of five (5) years, or longer if requested by the ATD. These records, documentation, and information shall include the following:
  - (a) exact date, place, and time of each sample collected,
  - (b) volume of each sample collected,
  - (c) name of person collecting each sample,
  - (d) name of analyst,
  - (e) date and time of analysis,
  - (f) the analytical techniques or methods used for each sample,

- (g) the analytical results including chromatographs, calculations, and other raw data,
- (h) calibration records and maintenance records of sampling equipment and analytical instrumentation, and
- (i) records of quality assurance activities as described in Section 6 of the approved application.
- 5. At the completion of a cleanup required by Paragraph E9, Salesco-AZ shall develop and maintain records of the cleanup including at a minimum:
  - (a) identification of the source of the contamination
  - (b) the date and time contamination was discovered;
  - (c) the date and time cleanup was completed;
  - (d) a brief description of contaminated area;
  - (e) the pre-cleanup and post-cleanup sampling data used to define boundaries of contamination and a brief description of the sampling methodology used to establish contaminated boundaries;
  - (f) the amount of waste cleanup material generated and location of its disposal
  - (g) a certification statement signed by Salesco-AZ personnel stating that the decontaminated levels referenced in the appropriate Approval condition has been achieved and that the information contained in the record is true to the best of his/her knowledge.
- 6. Salesco-AZ shall submit to the ATD a summary of all modifications to the process and application document within ten (10) days of the end of each year's operation, or a report that no such modifications were made.
- 7. Salesco-AZ shall maintain copies of the Certificate of Disposal for all PCBs and PCB items which are stored at the commercial storage facility. Certificates of Disposal shall be provided to the generator within thirty (30) days of receipt by Salesco-AZ of documentation of final disposal of all materials resulting from the recycling of the generator's PCBs and PCB items.

# G. CLOSURE and FINANCIAL REQUIREMENTS

1. Salesco-AZ shall comply with the current closure plan and closure cost estimate approved by EPA. At no time may the estimated costs associated with performing closure of the Salesco-AZ facility exceed the current closure cost estimate approved by EPA.

- 2. Salesco-AZ shall notify the ATD at least 90 days prior to the date it expects to begin closure.
- 3. Upon termination of the operation, Salesco-AZ shall proceed according to the provisions of the Closure Plan submitted to and approved by EPA. As used in this paragraph, "termination of the operation" includes cessation of operations required by expiration, termination, or revocation of this Approval.
- 4. Financial assurance equivalent to that specified in 40 CFR 761.65(g) shall be maintained to provide for:
  - (a) funding of proper closure of the operation. The closure plan shall include the decontamination and/or disposal in an EPA approved PCB disposal facility of PCB-contaminated equipment and materials;
  - (b) compensating others for bodily injury and property damage caused by accidents arising from operations of the facility.
  - 5. Any payment required to establish or continue the financial assurance mechanism used to satisfy the financial requirements of this section shall be made, and written verification thereof shall be furnished to the ATD by the Chief Executive Officer of Salesco-AZ prior to operation under this Approval. Salesco-AZ shall submit such documentation as EPA may require to determine that the financial assurance requirements have been met.
  - 6. An executed copy of the trust agreement or other instrument and satisfactory evidence as determined by EPA of adequate liability insurance meeting the requirements of 40 CFR 264 (H) shall be submitted to the ATD prior to operation under this Approval. Salesco-AZ shall submit such documentation as EPA may require to determine that the liability insurance requirement has been met.
  - 7. Salesco-AZ shall amend the Closure Plan whenever changes in operating plans or facility design affect the Closure Plan, including the current closure cost estimate, or whenever there is a change in the expected year of closure. Salesco-AZ must submit to the ATD for approval any modifications to the Closure Plan at least thirty (30) days prior to the modification.
  - 8. Salesco-AZ shall submit documentation of continued financial assurance annually to the ATD to meet the requirements of Paragraph 4 of this Section.
  - 9. The cost estimate for closure shall be based on worst-case conditions and shall be updated annually, or whenever a change in the Closure Plan increases the closure cost, and maintained on-site with the Closure Plan. The updated closure cost estimates shall be submitted to the ATD within thirty (30) days of Salesco-AZ's modification of the estimated closure cost.



# · UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

75 Hawthorne Street
San Francisco, CA 94105-3901

NOV 1 5 1995

NOV 8 - 1995

Mr. Franklin Sales
Salesco Systems USA, Inc. - AZ
5736 West Jefferson Street
Phoenix, AZ 85043

RE: TSCA PCB Inspection

Dear Mr. Sales:

On May 2, 1995, Yosh Tokiwa, a representative of the US EPA conducted a TSCA compliance inspection of the Salesco facility located at 5736 West Jefferson Street Phoenix, 85043.

Based on the information collected during the inspection, it appears that currently there are no violations of the TSCA at the facility. EPA reserves the right to re-inspect at any time. If the EPA receives new or contrary information about the facility, the agency may open the file for review or conduct another inspection.

Should you have any questions regarding this letter, please contact Yosh Tokiwa at (415) 744-1118.

Sincerely,

Jo Ann Semones, Ph.D.

Chief

Toxics Section

US December

transportation

Federal Highway Administration 400 Seventh St., S.W. Washington, D.C. 20590

JULY 26, 1995

AUG 0 4 1995

IN REPLY REFER TO:
YOUR USDOT NO.: 529164
REVIEW NO.: 00180768/CR

SALESCO SYSTEMS USA INC SALESCO SYSTEMS USA 5736 W JEFFERSON PHOENIX AZ 85043

DEAR MOTOR CARRIER:

THE MOTOR CARRIER SAFETY RATING FOR YOUR COMPANY IS:

# SATISFACTORY

THIS SATISFACTORY RATING IS THE RESULT OF A JUL 13, 1995, REVIEW AND EVALUATION. A SATISFACTORY RATING INDICATES THAT YOUR COMPANY HAS ADEQUATE SAFETY MANAGEMENT CONTROLS IN PLACE TO EFFECT SUBSTANTIAL COMPLIANCE WITH THE FEDERAL MOTOR CARRIER SAFETY AND/OR HAZARDOUS MATERIALS REGULATIONS.

PLEASE ASSURE YOURSELF THAT ANY SPECIFIC DEFICIENCIES IDENTIFIED IN THE REVIEW REPORT HAVE BEEN CORRECTED. WE APPRECIATE YOUR EFFORTS TOWARD PROMOTING MOTOR CARRIER SAFETY THROUGHOUT YOUR COMPANY. IF YOU HAVE QUESTIONS OR REQUIRE FURTHER INFORMATION, PLEASE CONTACT THE SAFETY SPECIALIST WHO CONDUCTED THE REVIEW.

ROBERT L. BLEAKLEY
NATIONAL FIELD COORDINATOR,
OFFICE OF MOTOR CARRIER FIELD OPERATIONS

Robert L. Bleakley

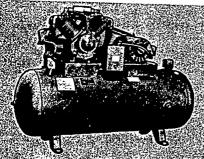
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TO:602 415 3030 PAGE:02/04

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# Single Stage Tank Mount Air Compressors

Built tough for industrial plants and laboratories where compressed air up to 100 paig is considered. Mounted on a 12 gallon American phase 60. Hz. Equipped with Society of Mechanical Engineers tank? Oil society of Mechanical Engineers tank

Single-Stage Blower/Compressors

Centrifugal units deliver substantial air, lowest medical politic motor brushes and sliding vanes that require maintenance substantial air, lowest medical politic motor brushes, and sliding vanes that require maintenance conveying account of the conveying account



Multi-Set Oil-less Piston Air Compressor

Plenty of air pressure for air tools—excellent: This high-powered compressor is powered by a for apraying paint and insecticides, sandblast-ing, inflating, cleaning, and stapling.

Has: five adjustable pressure settings: 10,30, 60 Hz; Furnished With a 15-foot air hose bleeder delivery of 22 cm; at 50 psi; and 100 psi; Utilisted unit, has an air air air chuck, safety vaive, rubber feet, e-foot cord delivery of 22 cm; at 50 psi; and 13 cm; at 100 psi; Utilisted unit, has an air air air chuck, safety vaive, rubber feet, e-foot cord delivery of 22 cm; at 50 psi; and 130 psi; and 30 psi; and

High-quality compressors are redustrial and laboratory applicatic
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# **Pneumatic Ga**

These portable air-driven, oil-free pressors are excellent for boostin tied gas pressures. For use with a linest gas except oxygen. Maximutive pressure is 160 psl. Special s sign prevents contaminants from air section from entering gas system. A section is factory pre-lubricated—line lubricator needed.

All models have exhaust muffler tool gas section. Double-action in get an added boost in pressure from Maximum Flow @ 30 pr. Max. psi Gas Suction Pressure (

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# Mobile Mini Com

Mobile Mini Com
This compact, fully operational, single cylinder electric air
compressor is directly connected to a 3/4 hp, 115-volt, 1-phase
electric motor. Unit features a 21/2
gallon tank cart mounted on rubber-lired wheels for portability.
Forced air cooling and splash
lubrication. It comes with an automatic pressure switch which cuts
in at 87 psi and cuts off at 116 psi,
in at 87 psi and cuts off at 116 psi,
in at 87 psi and cuts off at 116 psi,
in at 97 psi and cuts off at 120 psi
in at 97 psi and cuts off at 116 psi,
in at 100 psi. Max. pressure is 116
psi, Size: 167 long x 121/2\* wide x
25 high. Weighs 531/2 ibs.
No. 9590K27 ..NET EACH S372.88

McMASTER-CARE



# PS-E, PS-EH, and PS-EV Series— **Economical Miniature Pressure Switches**

- Vacuum to 3000 PSI (210 bar)
- **High Proof Pressures**
- Variety of Pressure Ports and Lead Wires Available

The Gems PS-E Series are designed for demanding applications where space and/or price are strong concerns. The switches utilize a piston/diaphragm design, which incorporates the high proof pressure of piston technology with the sensitivity of diaphragm designs. The switches can be field or factory set by a hidden Allen head adjustment that ensures against unauthorized tampering.

# **Specifications**

-	
Ambient Temperature	-40°F to +176°F (-40°C to +80°C)
Switch	5 Amp, SPDT@120/240 VAC and 12/24 VDC (>2 million cycles)
Approvals .	Microswitch is UL and CSA Recognized
Repeatability	2% of Highest Set Point @ 68°F (20°C)
Wetted Parts Diaphragm	Buna-N (Optional EPDM or Viton®)
Fitting	Zinc-Plated Steel (Optional SS or Brass)
Electrical,Termination	IP65 (Nema 4) DIN 43650A, or 18"(0.5m) Long, 18 AWG (0.82mm²) PVC Jacketed Lead Wires (Optional IP68 Submersible Lead Wires)
Pressure Port	G or 1/4" NPT Male (E Series Also Features 1/8" NPT Male) (E, EH Also Available in 7/16"-20)
Proof Pressure	PS-E, EV 350 psi (25 bar) PS-EH 9000 psi (600 bar)
Weight, Approximate	0.3 lbs. (0.14 kg)

# How To Order

Use the **Bold** characters from the chart below to construct a product code.

SELECT	PS	<u>-E</u>	<u>-1</u>	-4G	<u>-C</u>	-HC	<u>-x</u>
1. Series  -E low pressure; -EH high pressure; -EV vacu 2. Insert Range Code From Table Below 3. Pressure Port				T	Ī	Ī	
-4M 1/4" NPT male; -4G G 1/4 male; -4S 7/16			)			Ì	
-C SPDT; -A SPST/NO; -B SPST/NC; (-A and -	B optio	ns peri	ain to -	FL vers	ions)		
5. Electrical Terminations  -FL flying leads; -FLWL flying leads w/weathe -HC DIN connector w/strain relief; -HN DIN c					le only;		

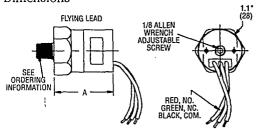
- - -1 Viton® diaphragm; -2 EPDM diaphragm; -3 316 ss for 1/4" ports; -4 brass for 1/4" ports; -7 gold electrical contacts; -9 reduced deadband; -B oxygen cleaned; -20 IP68 submersible (\*); -SR surge restrictor; DIN connection w/light also available

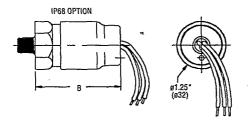
Note: (+) For factory-set units specify set points and units followed by -R for rising or -F for falling Example: PS-E-50psi-R-4M-A-FL (50psi, Rising, 1/4" NPT, Normally Open Switch, Leads)

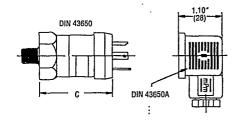
(\*) submersible option requires wire leads and factory preset set points (units are not field adjustable)











0	Dimension inches (mm)			
Series	A	В	C	
PS-E; PS-EV	1.50" (36)	2.16" (55)	1.85" (47)	
PS-EH	1.73" (44)	2.39" (61)	2.08" (53)	

Series	Pressure Range Code	Adjustable Range	Average Dead Band	Series	Pressure Range Code	Adjustable Range	Average Dead Band
. DC F	-1 3-7 psi 1-2 psi 0,2-0,5 bar 70-140 mbar		-1	10-30 psi 0,7-2 bar	4-6 psi 0,25-0,4 bar		
PS-E Pressure Switch	-2	5-30 psi 0,35-2 bar		PS-EH	-2	25-75 psi 1,5-5 bar	5-10 psi 0,35-0,65 bar
OWIGH	-4 ★ 25-100 psi 3-12 psi	High Pressure	-3	65-300 psi 4-20 bar	20-40 psi 1,3-2,6 bar		
PS-EV Vacuum	1 1	5-15" Hg 150-500 mbar	3-5" Hg 100-150 mbar	Switch	-4	250-1000 psi 17-70 bar	40-85 bar 2,6-5,7 bar
Switch	-2	12-28" Hg 400-925 mbar	3-6" Hg 100-200 mbar		-5	1000-3000 psi 70-210 bar	120-220 psi 8-15 bar

# Air Hose

M&F

Hose M & F Assembles No. NET EACH 25-Ft. Lengths, 300 PSI Work Pressure 14" × 14" 5304K61...\$10.77 88" \$9" × 14" 5304K62...\$10.89 89" \$9" \$9" 5304K63...\$13.49 12" × 12" × 12" 5304K64...\$10.38

CONTRACTOR SHAPE A

Hose M & F Assembles ID Cplgs, No. NET EACH. 25-Ft. Lengths, 300 PSI Work, Pressure', 1/4" 1/4" 5305K61 \$13.48 36" 36" 1/4" 5305K62 17.33 36" 36" \$30" \$305K63 17.74 1/2" 1/2" 5305K64 24.39

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Reinforcement—high tensile yarn braid.	
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M. & F. Cplgs.: M. & M. Cplgs.

Work Hose Pres.	NET/FOOT	M & Γ Cpigs.	Attached
Hose Pres	1-49 50-FL	No NET/PA	IR No. NET/PAIR
ID × OD PSI No. * 3/16" 250 5304K42			
1/4" × 1/2" 200 5304K14	34 .28	5304K321.	56 5304K82
1/4" × 1/2" 200 5304K14.1 1/4" × 5/8"3005304K16	40.	ESDAKSS	56. 53U9NO/
5/6"× 5/8"3005304K19	54 .44	5304K351	85 5304K83 1.46
344' "1144"   200   5304K22	49 .33	5304K362.	29 5304K84 1.80 29 5304K88 1.80
- 36" → 2365" / 300 :: 5304K24	01 .43	5304K37 2	49 5304K85 2.93
14" > 76" 20053U4K26	30, 41	ronavon - 3	AQ 5304K89 2.70
1/5" y 7/6" 3005304K28	/[ .5/	FORANCO 11	56 . 5304K86 11.99
58" × 1"2005304K43		· C204KA1 18	97. 53041/5111.00
58" × 1"3005304K31.		E204KE2 11	93 - 5304892 4 10.00
3/4" × 13/16"3005304K44. 1" × 13/8"1505304K45.		- E204854 16	72 5304K93 • 18.70
11/4" × 125/32"1505304K46.	2.24 1.80	* FOOAVEE 90	07 / 5384K94 ♥29.07
416" v 0166" 150 5384K47.	2.80 2.25	5304K5634	.51 5304K95 ♦34.54
♦ Malleable Iron Universal Hos	e Couplings.		
A 11100110000000		195	

# | 1/2" | 1/2" | 5304K4 | 16.30 50-Ft. Lengths, 300 PSI Work Pressure | 1/4" | 1/4" | 5304K71 | \$20.34 3/6" | 3/6" | 1/4" | 5304K72 | 24.79 3/8" | 3/6" | 5304K73 | 25.21 1/2" | 1/2" | 1/2" | 5304K74 | 30.04 Tuf Neoprene Air Hose and Assemblies

Highly recommended for applications where air line lubrications are used or where hose is exposed to conditions of oil, gasoline, or grease, Resistant to weathering and abrasion.

For use with pneumatic grinders and drills chipping, scaling, and riveting hammers; and other shop tools. Used in industry, construction, mining, and quarry CH.

1.1		Work	
Hose	100	ressure PSI	No.
ID × 0		300	5305K11
1/2"-X.	7/8"	300	5305K13 5305K15
.5/8" X 1 3⁄4" X			5305K17
1" X		300	5305K21
11/4" X	125/32"	300	5305K22 5305K24

ervice.	Available	with, mal	e and	emale
race IP	T coupling	IS.	( A	To select
,,		La and	Cover	oil re-

Construction: Tube and Cover—oil resistant neoprene: Reinforcement: high tensile strength yarm braid.

Couplings: % and !/d' are machined brass barbed inserts: 5% and up are long shank cast brass.

Maximum continuous length is 150 feet.

a de recei	descript			
NE 1-4	T/FOOT 50-Ft.		Couplings tached	
Ft.	2 tin	No.	NET/PAIR	
\$0.82	· cace:	ESOSKA	2 57.57.81	
1.12	1 4 19	. 5305K4	4 2.75 6 10.60	
1.5	194	55305K4	18	:
2.1	1 71	5305K5	213.26	į
4.0	3.26	5305K	422.92 627.21	<u> </u>

# Heavy Duty Wire Braid Air Hose

Neury WIFE DIAID AIF MOSE
Riggedly constructed hose is ideal for chipping hammers, pneumatic drills, and other tools in industry, construction, and mining Bends easily into tight spots without loss of pressure. Resists crushing and kinking. Tube has oil resistance and will not soften, swell, or flake.

Construction: Tube—nitrile. Reinforce-Maximum continuous Cut Length

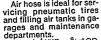
Hose	NET/
ID × OD Braid	No. FOOT
. ½" × 15/16"1 .	5630K11 \$2.94 5630K12 3.31
4" 116" 1	5630K13 4.21
114" - 134"	5630K14 6.25
2" 23/12" 2	5630K16 8.81

# ment—high tensife strength steel wire braid with textile breaker. Cover—yellow abrasion and oil resistant fabric impression.

impression.
Couplings: Malicable iron, 4-boit inter-locking clamp type:
Working pressure for all sizes is 1000.

psi.	A CONTRACTOR			
i lenath is	100 feet			***
-7, 50-Ft. I	Length	- M & I	F Cplgs.	Ş.,
	NET/	Att	NET/PA	IR.
No.	LENGTH	E630K3	\$26.	36
5630K21.	\$118.64 126.32	5630K3	42.	24
5630K22	160.53	5630K3	3 57.	93
5630K23.		5630K3	4 73.	36
.000UNZ4	200.00	5630K3	6113.	60

# Air Hose Assemblies



Arsemblies
Air hose is ideal for servicing pneumatic tires and filling air tanks in garages and maintenance departments.
Hose is ¼"ID × ½"6" OD. Construction: Tube and Cover—Black EPDM. Reinforcement: synthetic yarn brald. ¼" male IPT brass barbed inserts, ferrule clamped. Working pressure: 300 psi.

Length	With Chuck Without Chuck
E)	No. NET EACH No. NET EACH
25	.5313K11\$17.26 5313K13\$14.61 .5313K12 24.74 5313K14 22.60

# **Snubber Hose Assemblies**



For use with impact wrenches, air hammers, and other pneumatic tools, installed between tool and coupler body, this 24" length of hose will absorb shock and vibration, improving coupler life. Working pressure: 250 psi. Burst pressure: 1000 psi. Hose ID Fittings No. NET EACH 1/4" MPT ... 5366K61... 59.18 64" 4" MPT ... 5366K62... 9.30 1/2" MPT ... 5366K63... 10.86

# Air Hose Repair Kits



A 6-piece kit for all ¼" ID air hose. Ideal for garage or factory use for fast on-the-spot repairs.

Kit Includes: 1 female air chuck (¼" NPT); 1 male hose end (¼" NPT × ½" ID hose); 1 hose mender (¼" ID hose on both ends); 3 hose clamps (¾" OD hose).

No. 5452K12

# MCMASTER-CARR

# Retra

Self-storing air hose stretches and recoils like a telephone cord. Adapts to horizontal and overhead installations. For use with impact wrenches, drills, blowguns, dusting guns, moving air cylinders, belt sanders, air sanders, riveters, and other air operated tools. Tough yellow nylon hose is abrasion; oil, and grease-resistant.

Supplied with reusable brass tittings, rigid male pipe thread one end, swivel male pipe thread other end. Working pressure: 200 psi.

Bulk Ny

Retractable red nylon air hose in 50 and 100-foot choice of fittings to make custom length hose to sui requirements. Nylon hose is resistant to oils, gasolin cals, and abrasion. Working pressure is 180 psi.

Body assemblies include body, ferrule and in Swivel bodies also include spring guard. Spring required for 3/4 size.

į	5 C.F.				3.3	
1	D :: ∕8″	Feet	No.	NET	EACH	No.
3	/16"	100	564	4K17	.014.10 26.55	5644 5644
1	/4"	100	564	4K13	. 27.66	5644
٩	/16"	100	564	4K14	46.84	. 5644
1	8"	100	564	4K15,,	. 46.28	5644
3	/2" /4"	100	564	K16	. 73.51	5644
į,			2004	200	.127.00	5644

	Sprine Guard		N N	
D	No. NET 5644K31	EACH,	No. N	ET EACH :
16"	5644K32	41	5644K42	
/16"	5644K33 5644K34	.47	5644K44	35
/8" /2":	5644K35 5644K36		5644K45 5644K46	
	- 175.34.88		5644K47	

Handy kit allows you to make custom instant recoil air hose to the exact length required. Assembly is fast, accurate, and the connection is permanent. No special tools required: Eliminates need to carry a variety of preassembled lengths: For all movable applications such as air cylinders blowguns, drills, and robots. One foot of tubing will extend to ten feet, Hose instantly recoils which clears up the work area. Eliminates need for reels. Kit consists of two 100-ft-lengths of colled nylon bose; 20 brass linstant fittings with Buna N of Fing; 20 brass tube inserts; 20 steel spring guards

# Polyethyl-

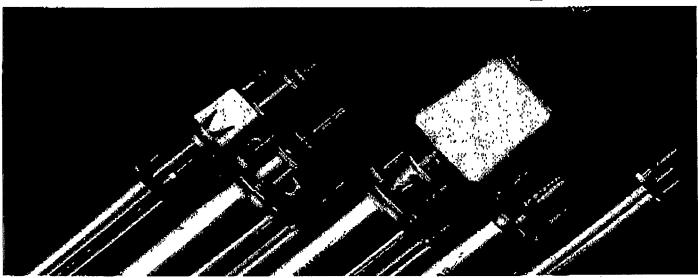
Handles almost all chemicals where temperature of solutions does not exceed 150°F. For acids, bases, and solvents including aromatics, alighalics, chlorinated, hydrocarbons, ketones, aldehydes, and esters.

Lightweight and flexible. Hose is designed with polyester braid and helix wire construction that makes, it suitable for full suction and discharge Work Min.

Hose Pres Bend Hose	S
Hose Pres Bend Hose	
D × OD PSI Radius No. NET/FOOT	No.
" NA W 1006 M THER YES WENTER BY CHARLES TO A CAR	,
1/2" × 25/64"150 8"5534K2311.72	222
2 100 0 100 11./2	553

Nylon tube handles air, oil paint, and many chemicals and solvents, ranging from acetone to xylene. High working pressure makes hose suitable for many spray and applicator applications. Hose is extremely flexible and easy to handle. The smooth, nonporous molded nylon tube is reinforced with high tensile strength synthetic yarn braid. Will not crack or swell, Tough red synthetic molded compound cover withstands the abrasion of rough use and resists oil and weathering. Temperature range: 40° to 180° for fleuid and 40° to 160° for air.

# HammerHead™ High Performance Automatic Air-Driven Pumps



The toughest landfill and cleanup pumps...with unsurpassed 4" well performance, and the only proven 2" automatic pump.

The HammerHead™ pump lineup includes controllerless air-driven pumps for tough landfill and cleanup jobs - flow to 15 GPM / 57 LPM, (21,600 GPD / 82,080 LPD) deep wells or high discharge head (to 300' / 91 m), corrosive or high-solids conditions, and small diameter wells (2" / 50 mm).

Top and bottom inlet models serve many applications: landfill leachate and condensate control, floating layer skimming, drawdown pumping, ground water cleanup, and more.

# **Fully Automatic Operation**

All HammerHead pumps give you the advantages of advanced controller-less operation. They sense liquid level internally, running when there's enough to pump, and shutting down automatically when well levels drop too low - without cycle timers, electrical connections, downwell probes, or level controllers.

This makes installation and startup much easier. Hands-off operation is more efficient than conventional pneumatics, saving air and delivering higher flow. Each pump automatically adjusts to its own well conditions,

# **Durability and Low Q&M**

Reliable, high-clearance design is engineered to a new standard in HammerHead pumps. Critical parts are solid investment castings for superior strength and chemical resistance.

Massive, self-cleaning ball check valves provide optimum flow and prevent clogging by solids or viscous substances. Positive action, magnetic assist Hammer Drive air valving ensures dependable operation, even with sub-standard air quality.

Disassembly is easy, and maintenance can be performed in the field, reducing O&M costs and system downtime to an absolute minimum.

# HammerHead™ Pump Advantages

- The highest flow rates of any automatic air-driven pumps.
- Ultimate reliability/low O&M with stainless steel bodies and one-piece cast stainless air valying standard.
- Massive, 1-1/2" inlet check ball for superior solids clearance.
- Oversize standoff inlet screens for greater intake capacity.
- Easy, <u>full</u> field disassembly without disconnecting air and water tubing from pump.
- Unmatched QED service and support, with a 2 year warranty.

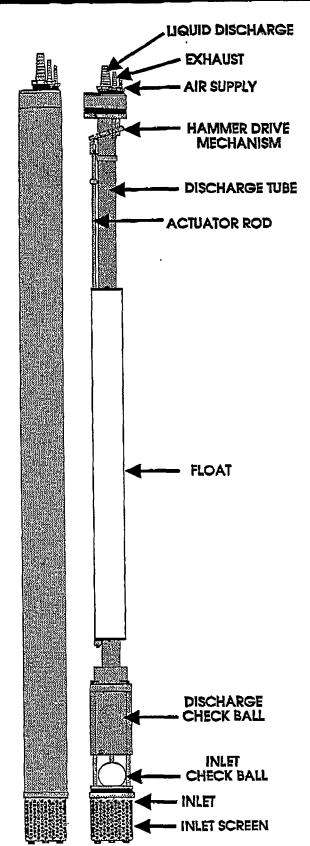


WQED Environmental Systems, Inc. P.O. Box 3726, Ann Arbor, Michigan 48106

734-995-2547 800-624-2026 Fax: 734-995-1170 E-Mail: info@qedenv.com Website: http://www.toughpumps.com

# TECHNICAL DATA / SPECIFICATIONS SHEET HAMMERHEAD 2" Bottom Inlet

PulsePump Model H23SEB



# Specifications:

Pump Type: Positive Air Displacement

# Dimensions:

Pump O.D.: 1.75"

Length: 39.5

Weight: 5.75 lbs.

# Materials:

Stainless Steel Construction, With Tellon Injet And Discharge Check Balls, Epoxy Float, Viton

O-rings,

Fittings:

Type: Stainless Steel Barbs

# Tubing:

Discharge Size: 1/2" O.D. Air Supply Size: 1/4' O.D. Exhaust Size: 3/8" O.D.

# PUMP PERFORMANCE:

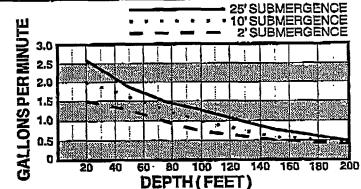
**OPERATING PRESSURE RANGE: 15-100 P.S.I.** 

MAXIMUM LIFT: 200 FEET MAXIMUM FLOW RATE: 2.5 G.P.M.

PUMP STROKE VOLUME: 250 ml. (.07gal.)

# PUMP FLOW RATES:

AT100P.S.I.



NOTE: THIS PUMP REQUIRES A MINIMUM OF 3" OF LIQUID (MEASURED FROM BOTTOM OF PUMP) TO BEGIN PUMPING, THE PUMP AUTOMATICALLY SHUTS OFF WHEN THE LIQUID LEVEL FOR PUMPING DOWN BELOW THIS LEVEL, AND WILL AUTOMATICALLY BEGIN PUMPING AGAIN ONCE THE WELL'S LIQUID LEVEL HAS RECOVERED.

# **ACCESSORIES:**

KIT REGULATOR/GAUGE-2" P/N 37055 KIT-TOP INLET CONVERSION KIH2ST P/N

الحكام المنظم المراجع المنظم المعلى المنظم المنطق

P/N 1269 Rev. 3 3-18-94

# TOUGH PUMPS™

# Flow Control Accessories

Proven pump cycle counter delivers easy, accurate flow totalization.



## Model 37000 Counter

Conventional fluid meters are not reliable for measuring the pulsing type of flow produced by pneumatic displacement pumps. In the past, this made it difficult to totalize flow for site management, reporting or regulatory requirements.

Now with QED's Pump Cycle counters, accurate flow measurement is easy for users of controllerless. Hammerhead and Solo II pumps. These pumps deliver a consistent volume of liquid with each stroke. Counting the pump cycles and multiplying by the stroke volume gives the flow total.

In addition, dividing the pump cycles by the time interval tells you how fast the pump is cycling. Our sec-

ond-generation counters, have been engineered for a wider range of site conditions. Because they work on the compressed air line, the counters are ideal for cold weather applications where typical water flow meters have potential freezing problems. Remote display capability is also available; please inquire.

QED mechanical cycle counters have been widely accepted and proven in use on a large variety of cleanup and landfill sites. The new electonic model offers additional options, including a high contrast LCD readout, several reset modes, an integral alkaline battery (no outside power needed), and remote display up to 1/4 mile from the pump.

# Tank-full shutoff for positive protection.



ED's Tank Full Shutoff senses when your recovery tank is full and automatically shuts off the pump air supply, conserving air and proventing system operation until an empty tank is available. This protects against accidental overflow without requiring frequent site visits.

The control module is connected between the air source and pump(s) or controller(s). The sensing tube assembly threads into a standard 2" NPT fitting on the recovery tank or drum. The unit is inherently reliable, with fail-safe start-up/reset procedure and no floats or bubblers to malfunction.

# CYCLE COUNTER SPECIFICATIONS

Model No.:
Operation:
Display:
Dimensions:
Materlals:
Weight:
Temp. Range:
Max. Pressure:
Flow Capacity:
No. of Counts:
Connections
Included:

Mechanical pneumatic
Rotating number wheels

2.25" H x 4.5" W x 2.13" D (5.7 x 11,4 x 5,4 cm)

Anodized aluminum, brass, plastic 1 lb. (,45 kg) shipping weight 0° - 140° F (-18°- 60°C) 200 psi (1960 kPa)

Normal flow 5 SCFM (8.5 m3/h); maximum flow 20 SCFM (34 m3/h)

0 - 999,999

1/8" male NPT-air "in" connection.
1/8" female NPT air "out" connection.
1/8" brass street elbow - 2 ea.

# SHUTOFF SPECIFICATIONS

Model No.:

Weight:

L374

Dimensions:

Control module 8.25" H x 10.5" W x 6.5" D (21 x 27 x 16.5 cm); sensing tube

1.88" O.D. x 37" (94 cm) L Control module 6 lbs.(2,7 kg), sensing tube 1 lb. (.45 kg)

Temp. Range: Pressure Range: Maximum Flow:

35° - 180° F (2°-82°C) 40-100 psi (275-700 kPa) 40 SCFM @ 100 psi (68

m3/h @ 700 kPa) (runs up to 10 pumps)

Connection
Thread Size:

Thread Size: Air tubing 1/4" NPT; sensing

tube 2" NPT

Maximum Air

Tube Length: 250' (75 m)

#### OIL WATER SEPARATOR

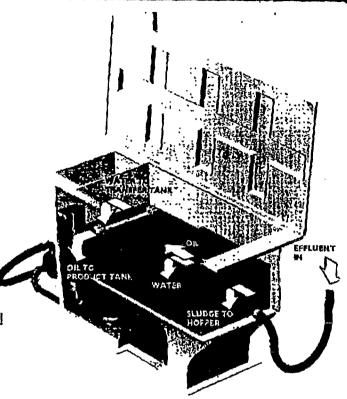
# Oil/Water Separators

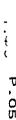
## QED SEPARATORS, WITH EXCLUSIVE INTEGRAL-TANK DESIGN

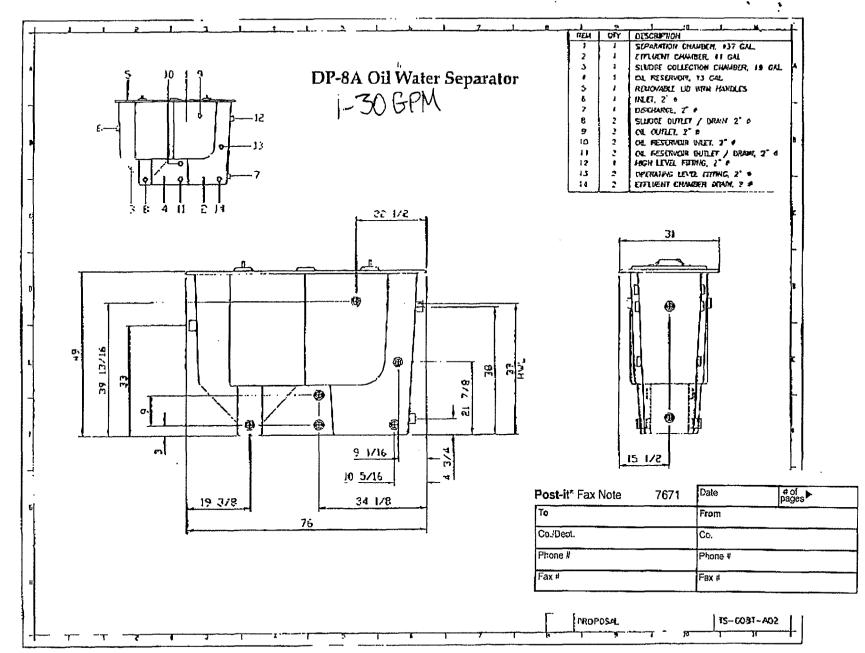
#### INNOVATIVE ENGINEERING FITS YOUR SITE NEEDS

QED oil/water separators are the only separators on the market that integrate the product and transfer tanks and the sludge collection hopper into one unit. Everything is built right in for easier installation, operation and emptying, with less piping and a smaller footprint. The integral sludge collection hopper stores sludge for convenient removal without fouling the media pack, and the exclusive, integrated design eliminates worry about leakage.

Our separators are process-engineered to match your site requirements, with a full range of sizes and capacities to 77 G.P.M. available (200 G.P.M. by special order). Using a computer model, we will specify the most efficient, up-to-date API standards-based coalescing OWS configuration for your system.







#### **Sump Pumps**

#### omy Vertical Sump Pumps

Ideal for draining water and seepage below wer level and for controlling flooding conditions in cellars and loading docks.

Pumps have built-in float-actuated water level switch, nonclogging impeller, and 1½° fpt discharge. Motor is 15 volts, AC, 60 Hz, 1-ph with 8 ft. 3-wire cord and plug.

MODEL 1—ABS plastic volute with galvanized steel column and drive shaft. Suitable for temperatures up to 180° F. Motor is ½ hp. Sump depth is 20°. Pump height is 32°.

PUN	_		
Head, Ft.	5	10	15 🕶
GPH	2940	2400	1920
10001/04		NET EA	CU ace

No. 4330K31 — ACH 3885 MODEL 2—Stainless steel column and dine shaft with cast bronze base, copper float bas and brass float stops. Overload protected model by being the steel steel by being the steel steel by being the steel st

PUN	1 25		
Head, Ft.	5	10	15 🖟
GPH	3600	2500	1600
le 4220K21		NET FAC	H \$218

No. 4330K21... NEI EACH S2181.

Plastic float, float rod support, base and shaft of sistance. Overload protected motor is '/3 hp. Has ner. Sump depth is 28". Pump height is 34".

PUMP PERFORMANCE			3/1
Head, Ft.	5	10	15 %
GPH	3000	2200	1100
Column Bronze	Impeller Brass	No. 4317K5	NET EAC 1 \$147
Steel-Plated	Cast Iron	4317K5	2 1211
Plastic	Plastic	4317K5	3 751

#### **Vertical Sump Pumps**

Vertical Sump Pumps

Heavy duty ½ hp pumps are built for relia
service . . . will pass up to ¾ solids with
clogging. The plastic float has a stainless are
rod with adjustable stops to actuate the mounded flouid level control switch. Pumps
2-blade, dynamically balanced bronze impe
threaded on shaft. All have graphited bron
pump bearing, stainless steel shaft, brass colin
pipe, and cast bronze base and volute. Dischur
is 1¼ fpt. Minimum sump diameter is 12.5,
able for liquid temperatures up to 150° F. Si
Drip-proof, vertical-mounted motor has a
matic thermal overload protection. The ½ hpn
tor operates on 115 volts, AC, 60 Hz, 1-ph
Furnished with 8-ft. 3-conductor cord and p

PUMP PERFORMANCE

P	UMP PEF	RFORMA	NCE	
Head, Ft.	5	10	15	205
GPH	4000	3200	2200	900
Sump Depth 2617/32"		N 9	57K11	T EAC . \$283
37" 49"		9	957K13 957K17	568

#### Accessories

npa Accessories

orn page Contains 2-4 n. of feet by drain with double cuffs every 6 ft. 1/2 male add into includes a flapper check valve with a 1/4 tan 2 bron pipe thread to screw into the sump 1 by Description

Standard Kit. 2288K2. 

SIMP PUMP CHECK VALVE—Check Deck flow of water and sewer, gas where duces vibration of pump piping, and lates system one size fits most installable Plastic body, has triple O-ring seals valve copts a 1-4 and 11-2 steel or plastic pipe, this 11-7 and 27 copper pipe by using the plastic pipe of the property of the prop

#### McMASTER-CAR

#### Submersible Centrifugal Sump Pumps

#### **UL Listed Sump Pumps**

Get rid of the water on your construction site! Lifetime lubricated pumps have a nonclogging pumping head and impeller. Select epoxy coated

1/4 AND 1/3 HP MODELS-

cast iron or corrosion-resistant bronze housing. Furnished with a cord and 3-prong molded plug. All pumps are UL listed and CSA approved.

PUMP PERFORMANCE					
Head, Ft.	5	10	15	20	
GPH	2750	1750	750		
GPH	3250	2500	1550	450	
GPH	2750	1750	750		
GPH	3250	2500	1550	450	
GPH	4200	3800	2700	1825	
GPH	5000	4000	3000	2000	
	Head, Ft. GPH GPH GPH GPH GPH	Head, Ft. 5 GPH 2750 GPH 3250 GPH 2750 GPH 2750 GPH 3250 GPH 4200	Head, Ft.         5         10           GPH         2750         1750           GPH         3250         2500           GPH         2750         1750           GPH         3250         2500           GPH         3250         2500           GPH         3250         3800	Head, Ft.         5         10         15           GPH         2750         1750         750           GPH         3250         2500         1550           GPH         2750         1750         750           GPH         3250         2500         1550           GPH         3250         2500         1550           GPH         4200         3800         2700	

HP	Housing UAL	Ht. X Wd. Size	Cord Lg.	No.	NET EACH
1/4	Cast Iron	7¼″×7¼″	10'	9989K	54 \$87.36
1/3		6″×8½″	10'	9989K	56 132.13
¼	Cast iron	6"×8½" 6"×8½"	40'	ODGOV	EE 470.00
½	Cast Iron	10½″×9½″	10′	9989K	47 258.60
	Bronze	10½″×9½″	10′	9989K	48 455.16

# AND 1/3 HP MODELS— Automatic pumps have pressure witch that turns on in 7" to 10" of later and off in 1" to 3" of water. Pumps have polypropylene base, polycanonate cover, and 1½" fot discharge. Screened intake presents clogging. Pumps are overed by a ¼ or ½ hp, 115-volt, 0) Hz, 1-phase thermally overload protected motor. Minimum and diameter is 10". 212. HP MODELS—Automatic ressure switch turns on at 8½" to 12 of water and shuts off at 1½" to 12 of water. Pump has screened has and a 1½" fot discharge. The second of the second High-Capacity Sump Pump

High-Capacity Sump
This UL listed corrosion-resistant pump is
Invelont and compact enough for portable
set Resists cleaning chemicals and most
official to the corrosive solutions. A preset
not actuated mercury switch with a piggybed pit at 2 of 3", You can adjust to other levels.
In lot is 12 hp, 3000 rpm, totally enclosed, oilmod water-cooled, and overload protected.
Operates on, 120 VAC, 60 Hz, 1-phase and has
do iteal rotor shaft. Pump has a polypropy
the pioning and intake screen with an effident closed impeller and built-in check valve.
In the cooled in the cooled with 3-wire
promoded safety plug. Short, flexible discharge
state that 2", high and 6" diameter Float re
Temps is 12" high and 6" diameter Float re-

no is 12" high	and 6" di a. Minimum	ameter Floa sump dia. is	t re- 18".	
<b>通知</b> 相外:	PUMP	PERFORMAN	ICE	
Head, Ft.	5	10	15	20
GPH 1	4620	4200	2520	420
-*#414V04				

#### Battery-Operated Sump Pump



Battery-Operated Sump Pump

Lawrency backup pump goes

Section when power falls. A

Sel Jevel sensing device actises pump when sump water
a few inches above normal
water setting. Pumping conses until water drops to preset
will and then stops. Capacity is
see gallons per hour. Control
mechanges battery fully and
thains it automatically.

See pump includes a liquid level control battery
with control pack, a check valve with connections for several
state electronics. Pump includes a liquid level control battery
with control pack, a check valve with connections for several
state electronics. Pump includes a liquid level control. Battery
set of the second control of the several
state electronics. Pump includes a liquid level control. See page
of the second control of the second cont

#### **Aqua-Mate Sump Pumps**

Use this submersible for temporary and permanent installations. Stainless steel mopermanent installations. Stainless steel mo-tor casing acts as a float to activate switch. Turn-on level is 12"; turn-off level is 8". Elec-trical mechanisms are sealed in bronze and stainless steel. Thermally protected motor is ½ hp, 115 VAC, 60 Hz, 1-phase. Maximum wa-ter temperature is 160" F. Pump is 14½" high and 10½" dia. Vertical discharge is 1½" fpt. Pump has bronze impeller, T-carrying handle, and 10-ft. waterproof cord and 3-prong plug.

PUMP PERFORMANCE				
Head, Ft.	_ 5	10	15	20
GPH	3600	2500	1650	530
Housing Iron Bronze	••••••	No432	7K3	FEACH \$249.09 273.21



#### **Nonclogging Sump Pumps**

Nonclogging Sump Pumps

These automatic pumps feature a nonclogging impelier and a 1 ¼" fpt vertical discharge. They will handle liquids at temperatures up to 150° F. Pumps operate by means of a low-level pressure switch that is activated by direct water pressure. Switch is sealed by two flexible diaphragms for double protection . . no air column to become water-logged. Turn-on level is 12": turn-off level is 6".

The ½ hp, 1550 rpm motor is sealed in oil with built-in thermal overload protection. Operates on 115 volts, AC, 60 hz, 1-phase. Furnished with 8-ft. power cord, and 3-wire grounded plug. Pumps have built-in double Insulated handle for easy portability. Minimum sump diameter is 10". Choose high-impact, corrosion-resistant plastic or rugged cast iron construction.



	PUMP	PERFORMAN	NCE	
Head, Ft.	5	10	15	18
GPH	3060	2440	1440	0
Housing Cast iron Plastic			No. 4305K4	NET EACH

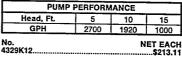
#### Nutomatic Sump Pumps

### AUTOFF AUTOF

amp diamete	r is 10½	<u>*.</u> -	
PUMP P	ERFOR	MANCE	
E THE STREET	10	15	20
<b>97H</b> ₹4140	3360	2280	960
100		No. N	ET EACH
President Commence		.4290K3	\$301.75

1/4 HP MODEL—Has a cast iron housing with an engineered plastic impeller. Pump height is 713/16". Minimum sump diameter is 12". Will handle liquids up to 140° F.

PUMP	PERFORM	ANCE	
Head, Ft.	5	10	15
GPH	2700	1920	1000





# U32 Catch Basin 2' x 3' with 6" Walls

WITH OR WITHOUT 2" WEEP HOLES

Cast-In Galvanized Frame for Grates 1-1/2" x 1-1/2" Angle Iron With Anchor Bolts

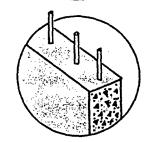
Cast-In Galvanized Frame for State Type Grates 4" x 3" x 1/4" Angle Iron Ends With Anchor Bolts 3-1/2" x 1/4" Side Bars

Grooved to Receive Tongue of Grade Rings, Curb Inlets, etc.

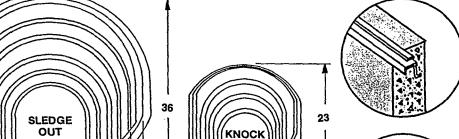
- · Knock-Outs Available in Grade Ring and Catch Basins.
- Openings, Locations and Sizes to Job Specifications.
- With or Without Bottom.

27½ 30½ 35½

- Progressive Webbed Knock-Outs Provide Maximum Flexibility Permitting Pipe of Any Size to be Neatly and Quickly Grouted in at Job Site.
- Standard Tongue and Groove Grade Rings are Available in 6" Increments up to 4' High.
- · All Reinforcing Steel Meets ASTM Specifications as Required.

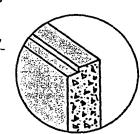


6" Exposed Rebar to Allow Job Site Pouring of Special Curb Shapes at Grade Level, etc.



19

Cast-In Galvanized Frame for 1/4" Steel Lids With Bolt Down Provisions



Recessed for 1/4" Steel Lid With Bolt Down Provisions





QUALITY PRECAST CONCRETE PRODUCTS



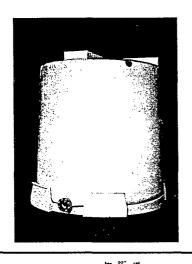
#### **IMFO TANKS**

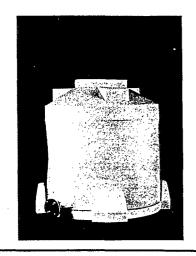
(INTEGRALLY MOLDED FLANGED OUTLET)

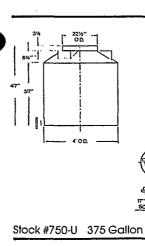


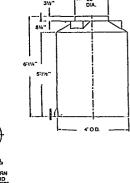


IMFO GUARANTEES COMPLETE DRAINAGE - SIMPLIFIES CLEAN OUT - ELIMINATES CONTAMINATION OUR NUMBER ONE CUSTOMER COMPLAINT HAS BEEN ELIMINATED BY INNOVATIVE DESIGNING SIZES WITH 4' DIAMETER - 5' DIAMETER - 8' DIAMETER - 10' DIAMETER - 12' DIAMETER 14' DIAMETER - 12' DIAMETER SLOPE BOTTOM TANKS

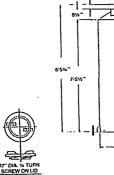


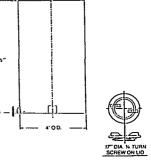








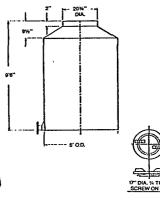


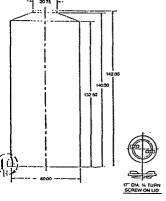


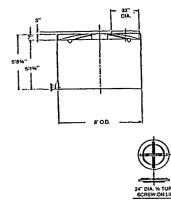
Stock #751-U 500 Gallon

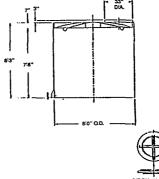
Stock #752-U 630 Gallon

Stock #753-U 710 Gallon







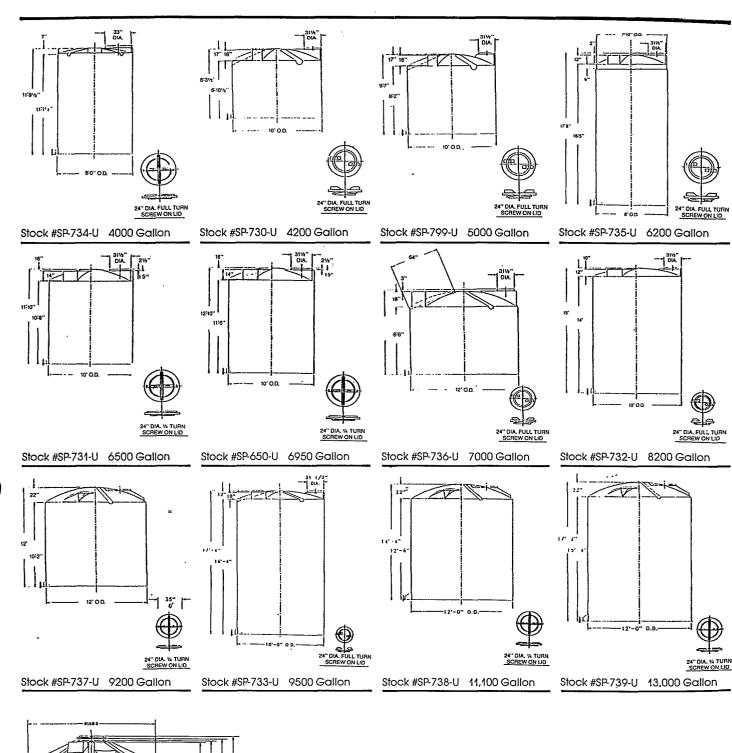


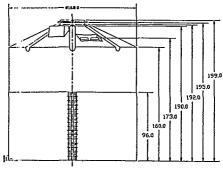
Stock #711-U 1190 Gallon

Stock #SP-722-U 1520 Gallon

Stock #SP-788-U 2000 Gallon

Stock #SP-789-U 3000 Gallon





MOLDED IN FITTINGS ARE THE PERFECT METHOD. THERE IS NO SUBSTITUTE FOR ELIMINATING CONTAMINATION BY COMPLETE DRAINAGE.

Stock #SP-653-U 16400 Gallon

#### Large Size - Alloys

15-800 Series – The General Purpose Workhorse for Water and Oils

- ▶ Stainless Steel or Brass Mountings
- ▶ 1 to 6 Actuation Levels
- Lengths to over 11 feet
- U.L. Recognized, CSA Listed

Rugged construction and multiple options provide the LS-800 Series with exceptional versatility. Longer and more substantial than other metallic models, the LS-800 is capable of supporting larger, more buoyant floats, and is physically stronger for better reliability in contaminated or turbulent media. This series offers SPST or SPDT switches, and a choice of mountings, floats and materials that can be configured for a wide range of applications in water, oils, chemicals and corrosive liquids.

#### **Temperature Sensing**

NC

1/Blk/Red

1/Blk/Yel

ı/Blk/Blu /Blk/Brn

/Blk/Orn

To save space and simplify wiring, GEMS can incorporate a temperature sensor in the end of the float stem on any model type LS-800. Two sensor types are available: Transducers for continuous output, and Thermostats for switch actuation. See Page A-41 for details.

#### Adjustable Mounting

Allows stem to travel up and down for fine tuning your actuation points. See next page.



LS-800 switches are U.L. Approved for Class I, Division 2, Groups A, B, C, D hazardous locations

They are also available with FM-approved. explosion-proof junction box for Class I, Division 1, Group D hazardous locations. Units must be assembled completely at GEMS.

#### 1. Mounting Types

Each mounting type can be configured with stem lengths (Lo) and float material indicated in the table below. Mountings are also continued on following page.

Note: Sanitary flange mountings are also available, but not shown. Please contact factory

Type 1	Type 2	Type 3
1/2" NPT	1-1/4" NPT	2" NPT
1/2" NPT	1'SQ. (25.4 mm)	1/2' NPT

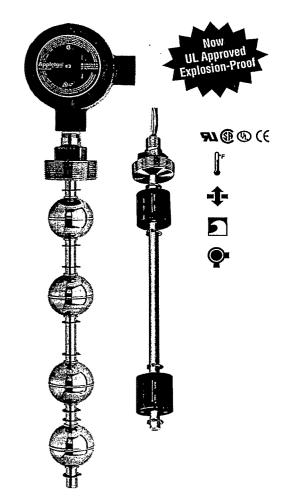
Flange: Carbon Steel or 316 S.S. Stem and Mounting Material Brass or 316 Stainless Steel Stem: 316 S.S. Max Length (Lo) 36" (91.4 cm) 60" (152.4 cm) 140" (355.6 cm)

**Mounting Position** Vertical ± 30° Inclination Float Stops\* Brass Units: Beryllium Copper Grip Rings; Stainless Steel Units: S.S. ARMCO PH-15-7MO Grip Rings

corrosive compounds in the media require the use of collar type float stops. Consult factory for details.

Units greater than 72" overall length are supplied with collars with setscrews (made of same material as stem and mounting) in place of float-stop rings. Collars are optional on units less than 72" overall length. Units requiring 316 SS float stops must be special ordered with 316 SS collars instead of grip rings. In some instances, concentration of chlorine and other

It's Easy With Step-by-Step Check Lists. See Page A-24.



Type 4 3", 150# Dia. Flange

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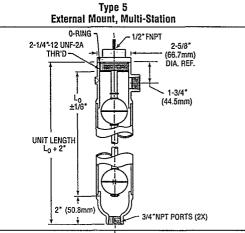




#### LS-800 Series - Continued

#### 1. Mounting Types - continued

Type 5 External Mounting units are ideal for tanks with limited access to tops or bottoms.



Housing Material	Brass	316 Stainless Steel
Stem and Mounting	Brass	316 Stainless Steel
Port Sizes	3/4	4" NPT
Max. Length (Lo)	120"	(305 cm)
Float Stops*	Beryllium Copper	S.S. ARMCO PH-15-7 MO

<sup>\*</sup> Units greater than 72\*overall length are supplied with collars with setscrews (made of same material as stem and mounting) in place of float-stop rings. Collars are optional on units less than 72\*overall length. Units requiring 316 SS float stops must be special ordered with 316 SS collars instead of grip rings. In some instances, concentration of chlorine and other corrosive compounds in the media require the use of collar type float stops. Consult factory for details.

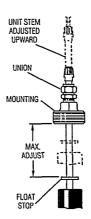
#### 2. Float Types

A single float type is selected for use at all actuation points. Be sure, by reviewing the table below, that the desired float is compatible with the Mounting Type selected in Step 1.

LS-800-A Series Adjustable Mounting Available for LS-800 Series Mounting Types 2, 3 and 4.

Special cinch-nut on mounting allows stem to travel up or down for fine tuning the actuation points. The extent of adjustment depends on unit length and distance from mounting to highest float stop. When ordering, specify "LS-800-A" as Series Type.

Note: Maximum overall length is limited to 72 with this option.



#### Intrinsically-Safe Relays

Using Gems SAFE-PAK® relays and barriers, these switches provide automatic refills/pumpdown and are intrinsically-safe without explosion-proof housing and piping.



Float Material	Bun	a N	316 Stainless Steel		
Compatible Mounting Types	2	1, 3, 4, 5	1, 3, 4, 5 (Units ≤72")	3, 4, 5 (Units >72")	
Float Dimensions	1-3/4* (44.5 mm) 1-1/4* DIA, (31.8 mm)	1-13/16* (46.0 mm) 1-7/8* DIA. (47.6 mm)	(50.8 mm) 2-3/32* (53.3 mm) 2-1/16* (52.4 mm)	2-11/16 (68.3 mm 2-11/16 (52.4 mm)	
Part Number	26032	10558	14569	15666	
Operating Temperature	Water: to 18 Oil: -40°F to +230°F	0°F (82.2°C) - (-40°C to +110°C)	-40°F to +300°F (-4	0°C to +148.9°C)	
Min. Media Specific Gravity	.75	.55	.75	.75	

Pressure Ratings Chart

PSI, Max.)			Float Part Number				
,		_	26032	10558	14569	15666	
		1, 2, 3	15	0	750	300	
Mounting Tune	4		150				
Mounting Type	-	Brass		100 @ +70°	°F (21.1°C)		
	5	316 S.S.	15	0	750	300	

Review the Compatible Mounting Type row in the "Float Types" table above this matrix for produceable mounting/float combinations. Not all combinations implied by this Pressure Rating Chart are possible or recommended.

#### 3. Electrical Specifications Switch (N.O. or N.C.):

**SPST:** 20 VA or 100 VA

SPDT: 20 VA

Lead Wires: #18 AWG, 24"L., Polymeric (except as noted in Wiring Color Code chart at right).

Approvals: LS-800 Series switches are U.L. Recog-

nized - File No. E45168; CSA Listed -

File No. 30200

Typical Wiring Diagrams

For clarity, only two actuation levels are shown in each

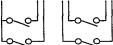
group diagram.

GROUP I

**GROUP II** SPST

**GROUP III** SPDT

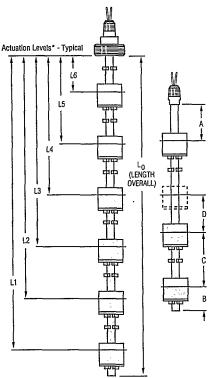
**GROUP IV** SPDT







#### 4. Actuation Level Dimensions



- Actuation level distances and  ${\bf L_0}$  (overall unit length) are measured from inner surfaces of mounting plug or flange.
- Length Overall  $L_0 = L_1 + Dimension B$ . See Mounting Types for Maximum Length values.

#### Wiring Color Code

Tinted area designates U.L. Recognized wiring configurations.

	SPST S	witches		SPDT Switches 20 VA						
Wiring	Group I	Grou	ıp II	Grou	ıp III	Group IV				
Com. Wire	Black	No	ne	Black		None				
	NO/NC	SW. Com.	NO/NC	NO	NC	SW. Com.	NO	NC		
L1	: Red >	r Red ∄	Red	Red	Wh/Red	Red	Wh/Red	Wh/Blk/Red		
L2	Yellow	Yellow	Yellow.	Yellow	Wh/Yel:	Yellow	.Wh/Yel	Wh/Blk/Yel		
L3	∌ Blue ₹	61 Blue	Blue	Blue	Wh/Blue	Blue	Wh/Blu	Wh/Blk/Blu		
L4	Brown	Brown	Brown	Brown	Wh/Brn	Brown	Wh/Brn	Wh/Blk/Brn		
L5	:Orange	Orange	Orange	Orange	Wh/Orn	Orange	Wh/Orn	Wh/Blk/Orn		
L6	Gray	Gray	Gray	Gray	Wh/Gra	Gray	Wh/Gra	Wh/Blk/Gra		

Notes: 1. Non-U.L. Recognized units (white areas) use #22 AWG, 24\*L., Teflon® Lead wires.
2. Units with 50 VA and 100 VA switches are not U.L. Recognized or CSA Listed.
3. See "Electrical Data" on Page A-4 for more information.

Switch actuation levels are determined following the guidelines below.

All units 72 "or less Lo with Stainless Steel or Buna N floats. Also Type 5 units over 72"La with Buna N floats:

A = 1-1/2" (38.1 mm) minimum distance to highest level (2", Type 5 only).

B = 2"(50.8 mm) minimum distance from end of unit to lowest level.

C = 3"(76.2 mm) minimum distance between levels.

D = 1/4" (6.3 mm) minimum distance between actuation levels (Note: One float for two levels can be used only when low level is N.C. dry and high level is N.O. dry).

Types 1, 3, 4, and 5 units with stainless steel float, Part Number 15666:

A = 1-5/8" (41.3 mm) minimum distance to highest level (2", Type 5 only).

B = 2-1/2" (63.5 mm) minimum distance from end of unit to lowest level.

C = 4"(101.6 mm) minimum distance between level.

D = 1/4"(6.3 mm) minimum distance between actuation levels (Note: One float for two levels can be used only when low level is N.C. dry and high level is N.O. dry).

- 1. A. B and C dimensions based on a liquid specific gravity of 1.0.
- 2. One float for two levels can be used only when 20VA switch is used.
- 3. Actuation levels are calibrated on descending fluid level, with water as the calibrating fluid, unless otherwise specified.
- 4. Tolerance on actuation levels is ±1/8 (3.2 mm).

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# Sensaphone<sup>®</sup> Family of Remote Monitor Systems

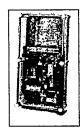












SENSAPHONE MODELS:	Sensaphone 1104 & 1108	Sensaphone 4100	Sensaphone Express	Sensaphone Express II	Sensaphone ISACC
	4 / 8 dry	4 Dry Contact 1 Temperature	4 Dry Contact	8 Universal Expandable to	16 Universal
SOUND MONITORING	Yes	Yes	No	Yes	No
POWER MONITORING	Yes	Yes	Yes	Yes	Yes
OUTPUTS	No	1 Digital	1 Relay	l Relay (expandable)	8 Digital, 4 Analog, 1 Relay
I/O EXPANSION	No	No	No	Yes	No
TEMP. SENSING RANGE ( <sup>o</sup> F)	-20° to 150°	-20° to 150°	-60° to 175°	-85° to 300°	-60° to 175°
VOICE ALARM MESSAGES	Yes	Yes	Yes	Yes	Yes
PROGRAMMABLE VOICE	No	No	Yes	Yes	No
BUILT-IN MODEM FAX	No	No	No	No	Yes
REPORTING	No	No	No	No	No
	No	No	No	No	No
ALPHANUMERIC PAGER	No	No	No	No	No

NUIVIEKIC PAGER	Yes	Yes	Yes	Yes	Yes
DIALOUT PHONE NUMBERS	4 or 8	4	8	48	8
MAX PHONE DIGITS	32	32	32	40	32
PROGRAMMING:				·	
LOCAL KEYPAD	Yes	Yes	Yes	Yes	No
KEYPAD LOCK	Yes	Yes	Yes	Yes	N/A
LOCAL DATA	No	No	No	No	Yes
REMOTE TOUCH-TONE	No	No	No	Yes	No
REMOTE DATA	No	No	No	No	Yes
DATA LOGGING	No	No	No	Yes (via printer)	Yes
BATTERY BACKUP TIME	24 hours	22 hours		6-12 hours	10-15 hours
NONVOLATILE MEMORY	Yes	Yes	Yes	Yes	Yes
ENCLOSURE	Plastic	NEMA-1	NEMA-4X	NEMA-4X	NEMA-4
	Sensaphone 1104/1108	Sensaphone 4100	Sensaphone Express	Sensaphone ExpressII	Sensaphone ISACC

If you use Chart Recorders, Network Servers, and other source ASCII Text information, be sure you consider the Data Remote!

And take a look at the many **Sensaphone** Accessories and Sensors that Phonetic your Sensaphone to the utmost in every application.



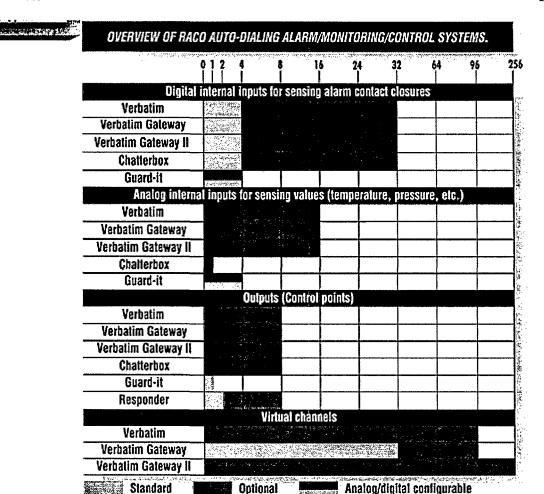
#### COMING SOON!

The revolutionary new SCI 3000:

The SUPER device for contr monitoring

at the Mild-Mannered 1

Click Here to learn more.



Select the photos below for more information.

#### Verbatim



The RACO Verbatim is the most technologically advanced Alarm Autodialing and Remote Monitoring System available, offering operational and programming features unavailable in any other system. Speech messages digitally recorded by user. Large selection of modular options. Remotely programmable via any touch-tone phone over a standard telephone line. Lets the operator turn equipment on or off from any phone- anywhere. Can function as an RTU. Up to 32 contact channels and up to 16 analog channels.



2.3 MG PDF file

#### **Secure Front Panel Verbatim**

The Verbatim System is available in a Secure Front Panel (SFP) configuration, where the unit is furnished without the front panel keypad and some of the front panel indicators that are used for programming at the panel. With this unit, system programming can only be done over the phone. The SFP system provides security for unsupervised or remotely located units and the initial purchase price is only \$1,400.00.

#### Guard-It

Raco - Products Page 3 of 4



1.1 MG PDF file

Get a reliable RACO Alarm Autodialing and Remote Monitoring System for only \$795. Guard-It can monitor up to 4 analog or digital input channels and call 8 preprogrammed phone numbers over a standard telephone line to provide alarm information in the form of a digitally recorded voice message. Alarm calls can be made to any standard phone, pagers, cellular phones, and voice mail. Users can call in for a status report from any remote touch-tone phone. The system is field programmable at the control panel.

#### Chatterbox



The Chatterbox, RACO's original Automatic Dialing and Remote Monitoring System. Since 1984, thousands in use in water and wastewater plants across the nation. Calls up to 8 preprogrammed phone numbers. Alarms reported via synthesized voice messages programmable by user. System is modularly expandable to 32 contact channels. Options allow monitoring of a single analog input, with user-programmable high and low setpoints, and operation of external output relays from any remote touch-tone phone.

#### Verbatim Gateway



The RACO Verbatim Gateway doubles as an alarm autodialer and PLC interface. As an autodialer, it incorporates all of the advanced features of a Verbatim System. As a PLC interface, the Verbatim Gateway serves as a remote MMI for an Allen Bradley or Modicon PLC network, providing read/write access to PLC data tables and I/O points using any standard touch-tone phone.

#### Verbatim Gateway II



This new Automatic Dialing Remote Monitoring System and PLC Interface offers a cost-effective way to add alarm autodialing to a PLC-based MMI/SCADA system. The Verbatim Gateway II provides up to 256 external PLC inputs for alarm reporting, status checking, and data logging functions. Four physical digital inputs are also provided for direct alarm reporting. The system features ease of programming using RACO Alarmware System Configuration Software, together with enhanced data logging, and a PIN-based security system. Communications with a PLC uses only a serial cable connection, enabling users to avoid the high cost of complex wiring, relays, additional PLC outputs, and reprogramming. The Gateway, in turn, is connected to the telephone network via a standard plug-in phone jack.

#### Cellularm



RACO Cellular terminal provides temporary or permanent cellular telephone service when conventional telephone lines are not available. Cellular phone transceiver can be optionally furnished with a RACO Autodialer System to provide alarm monitoring, reporting, and system status checking. Packaged in rugged, weather-resistant housing that is easy to transport and set up.

# 

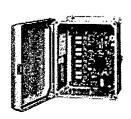
# **RACO Connections DDE Server Software**

RACO Connections DDE Server Software lets RACO Verbatim RTU's provide alarm monitoring and control functions in a Microsoft Windows based DDE-compliant MMI/SCADA system over standard dial-up telephone lines. Because Verbatim Systems do not need to be pulled, all alarms are reported instantaneously and SCADA system message traffic is minimized.



#### **RACO SCADA System**

RACO SCADA System software lets you combine a Verbatim System with a Central Station Computer to interface up to 200 Verbatim Remote Terminal Units (RTUs). Simple, cost-effective system permits the use of conventional dial-up phone lines to ensure continuous monitoring, reporting, data logging, and alarm autodialing.



#### Responder

RACO Responder can be called from any touch-tone phone to operate remotely located pumps, valves, motors, switches, and other devices. DTMF tones generated by calling phone cause relay activation at Responder RTU, which in turn operates the remote device. Two relay outputs standard, eight optional. Packaged in a rugged, weather-resistant housing.

#### **Software Demos**

- SCADA Software Demo, size 830 k
- DDE Server Software Demo, size 830 k
- ALARMWARE Software Demo, size 1MG

These software demos are designed to be run on PC compatible computers.

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### APPENDIX A SUPPLEMENTAL FIELD SAMPLING AND ANALYSIS PLAN

#### A.1 INTRODUCTION

- 1. This Supplemental Field Sampling and Analysis Plan (FSAP) has been prepared to guide the Reservoir Liquids Treatability Study (TM No. 13) field activities for the Waste Disposal, Inc. (WDI) Superfund site in Santa Fe Springs, California.
- 2. A Supplemental Quality Assurance Project Plan (QAPP) has been prepared as a separate Addendum to TM No. 13. Standard Operations Procedures for various elements of the work, which are referenced in this Supplemental FSAP and QAPP, are included in the Addendum.

#### A.2 SAMPLING OBJECTIVES

- 1. Since this Supplemental FSAP is an Addendum to TM No. 13, the specific project objectives are presented in TM No. 13, Rev. 1.0, Section 7.0.
- 2. Table A.1 summarizes the Data Quality Objectives (DQOs) for the reservoir liquid samples and analyses.

#### A.3 RATIONALE FOR SAMPLING

#### A.3.1 APPROACH

- 1. As outlined in TM No. 13, the primary purpose of the samples and analysis activities is to collect additional data on the reservoir liquid chemical characteristics to facilitate disposal and to provide data to make operating adjustments to the influent from the wells or the treatment plant.
- 2. The sampling efforts to be used in support of these field activities will incorporate the following strategies:
  - Follow appropriate protocols in the Health and Safety Plan to minimize exposure to potentially contaminated media.
  - Follow labeling protocols for each sample collected.
  - Place samples in laboratory-certified clean receptacles.
  - Adhere to field sample collection and handling procedures as described herein, and supported by Quality Control (QC) measures provided in the Supplemental QAPP.

• Follow sample packaging and Chain-of-Custody protocols to assure that samples which may be analyzed are delivered to the laboratory and stored appropriately. Detailed protocols are provided in the Supplemental QAPP.

#### A.3.2 RESERVOIR INVESTIGATION

- 1. A liquid sample will be collected from the existing reservoir wells and newly installed wells. The wells will be purged and sampled pursuant to procedures described in SOP E. The analyses to be performed are provided in Table A.3.
- 2. Liquid samples will be collected from the effluent treatment tanks as per the procedure described in SOP O.

#### A.4 ANALYSIS REQUIREMENTS

#### A.4.1 MONITORING/TESTING FREQUENCIES

1. During sampling, if immiscible layers are observed in the wells or tanks, these layers will be collected separately and analyzed.

#### A.4.2 ANALYTICAL PROCEDURES

1. Procedures for analyses of reservoir liquid are presented in the Supplemental QAPP.

#### A.4.3 ANALYTICAL PARAMETERS, SAMPLE CONTAINERS, METHODS OF PRESERVATION, AND HOLDING TIMES

1. Information on analytical parameters, sample containers, methods of preservation, and holding times are presented in Table B.1 of the Supplemental QAPP.



#### A.5 METHODS AND PROCEDURES

#### A.5.1 SAMPLE COLLECTION

#### A.5.1.1 Reservoir Liquid Sample Collection

#### A.5.1.1.1 Liquid Level Monitoring

- 1. Prior to collecting samples, liquid levels will be measured as detailed in SOP F. The following general procedures will be used:
  - Water (liquid) level measurements will be made from a designated measuring point at the top of the well casing to an accuracy of ±0.01 feet. The level will be measured a minimum of two times, or until close agreement (±0.01 feet) is obtained between consecutive measurements, before recording the depth to water.
  - Level measurements will be recorded on the standard form shown in SOP F.
  - Water levels will be obtained prior to purging and sampling.
  - To prevent cross-contamination between wells, the sounding device will be decontaminated between each well.
  - Whenever possible, the level measurements during a sample round will be performed by the same person.
  - The expected seasonal maximum and minimum water levels are not known at this time. This will be determined using the ground water monitoring program.

#### A.5.1.1.2 Reservoir Liquid Sample Collection

- 1. Liquid sampling procedures are detailed in SOPs E, F and O. The list below identifies the types of equipment that may be used for a range of sampling situations at the site. From this list, equipment will be selected based upon the depth to ground water (liquid), purge volumes, analytical parameters and well construction. In general, the wells will be sampled in order of expected contamination (i.e., from last impacted to most impacted). The types of sampling equipment are as follows:
  - Purging/Sample Collection
    - Submersible Pump
    - Bailers (disposable)
    - GA to \_\_ samples model
  - Tank Sampler
  - Disposable Caliwasa Samplers
  - Field Measurements
    - Electric Well Sounder

- 2. Additional equipment to support sample collection and provide baseline worker safety will be required to some extent for each sampling task. The additional materials are separated into the following two primary groups: general equipment which is reusable for several samplings; and materials which are used one time and then disposed of:
  - General
    - Health and safety equipment (respirators, goggles, protective coveralls).
    - Field data sheets and/or logbook.
    - Sample bailers.
    - Sample containers (provided by selected laboratory, or equivalent, with appropriate preservatives as outlined in the Revised QAPP).
    - Buckets and intermediate containers.
    - Coolers and ice.
  - Expendable Materials
    - Bailer cord.
    - Gloves (nitrile).
    - Chemical-free paper towels.
    - Plastic sheets.
- 3. Each reservoir well will initially be purged prior to sample collection. If practical, three well volumes of liquid will be withdrawn prior to sample collection. However, if the well can be purged dry, only one volume will be withdrawn. The volume of water (liquid) present in each well will be computed based on the length of the water column, the well casing diameter and the diameter of the borehole, as per the QAPP for ground water sampling. After the initial round of sampling is completed, purging will not be required in the subsequent sampling, since the well will be actively pumped as part of the treatability program.
- 4. The following additional parameters will be followed for handling samples removed from the wells:
  - The mixing of air will be minimized during removal of a sample from its container by tilting the bottle to allow the water to run down the inside wall of the bottle. A gentle stream of water should exit the valve. High velocities will cause oxygen uptake and loss of volatiles.
  - Sample bottles will be kept at 0 to 4 degrees Celsius (° C) in an iced cooler/chest so they remain cool prior to sampling. Filled sample bottles will be packaged and placed directly into an iced cooler/chest.
  - Plastic bottles without preservatives will be completely filled to minimize air contact; however, 1-liter, 1/2-gallon, 1-gallon, or 5-gallon glass bottles, if used, would be filled only 90 percent full to allow room for expansion and contraction of liquid.

- Precautions will be taken to limit the contamination of samples from outside sources. Hands will be washed with distilled water, and rubber surgical gloves will be worn, especially if petroleum products are encountered. The order of sampling will be from the least contaminated well to the most contaminated well.
- Well number or sample location, date, time of sampling, analysis to be performed, sampler's initials, preservative and sample identification numbers will be noted directly on the sample label with indelible ink.
- 5. When sampling for VOCs, the 40-milliliter (mL) sample vials will be completely filled and will have no headspace. To avoid aeration, the sampler will be held at an angle so that the stream of water flows down the side. The vial will be filled until it overflows to eliminate any air bubbles, and the Teflon-lined cap will be replaced. Two vials will be collected for each sample.
- 6. The vial will be turned upside-down and tapped to check for air bubbles. If air bubbles are present, the vial disposed of and a new vial filled. This procedure will be repeated until no air bubbles are observed.

#### A.5.1.1.3 Quality Control Ground Water Samples

- 1. Liquid sampling requires the use of trip blanks, field blanks and duplicates for QC purposes. These QC procedures are discussed in Section B.10 of the Supplemental QAPP.
- 2. Field ground water QC samples will be identified in the same manner as field samples. As indicated in the Revised FSAP, Rev. 4.0.

#### A.5.2 DECONTAMINATION

#### A.5.2.1 Equipment Decontamination

- 1. Nondisposable sampling equipment (e.g., stainless steel bailer) will be decontaminated at a central location where it was used. Decontamination fluids will be collected for proper disposal.
- 2. Decontamination procedures are provided in SOP G.

#### A.5.3 DISPOSAL OF SOIL CUTTINGS, PURGED GROUND WATER, AND ASSOCIATED SAMPLING WASTES

 Contaminated or potentially contaminated field materials used or generated as a result of field activities proposed in this plan will be managed in accordance with Appendix D of the RD Workplan.

#### A.5.4 SAMPLE CONTAINERS

- 1. Table B.1 of this Supplemental QAPP lists the sample container requirements appropriate for different sample matrices and analytical procedures.
- 2. Each sample container will be labeled with the name of the person taking the sample, sample date and time, sample identification code, sample type, preservation method and analyses to be performed. The label will also indicate if the sample is to be held in appropriate storage by the laboratory until the geologist/engineer determines if analyses are to be performed based on initial analytical results for representative samples.

#### A.5.5 SAMPLE PRESERVATION

1. Appropriate sample containers and preservatives for soil samples will be supplied by the analytical laboratory or equivalent reputable source. A listing of these containers, preservation methods, and associated holding times are provided in Table B.1 of the Supplemental QAPP.

#### A.5.6 SAMPLE SHIPMENT

1. Detailed sample transportation procedures are described in SOP H.

#### A.5.7 SAMPLE DOCUMENTATION

1. SOP J provides a complete description of the sample identification procedures.

#### A.5.7.1 Chain-of-Custody

1. Chain-of-Custody procedures are presented in SOP I. Copies of the Chain-of-Custody records completed by the laboratory will be returned with the results of laboratory analyses.

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#### A.5.7.2 Field Notebook

1. In the field, the Field Engineer/Geologist collecting the samples will record the appropriate portions of the following information for each sample collected, as appropriate for the sample type, using indelible ink, in a field logbook or on a field data sheet as described in SOP J.

# TABLE A.1 DATA QUALITY OBJECTIVE DEVELOPMENT PROCESS WASTE DISPOSAL, INC.

ACTIVITY	RESERVOIR LIQUIDS MONITORING
Objectives	See Workplan Section 3.2.5
Intended Data Use	Develop data on reservoir constituents, to use in ground water evaluation
Required Analytical Methods of DQO Levels	VOCs (8260) Total and Dissolved Metals (6010/7000) SVOCs (8270) Pesticides (8080) Oil and Grease (418.1)  DQO Level 2
Contaminants of Concern	VOCs Metals SVOCs Pesticides
Required Detection Levels	VOCs <sup>(1)</sup> Metals <sup>(1)</sup> SVOCs <sup>(1)</sup> Pesticides <sup>(1)</sup>
Action Levels/ Regulatory Standards	None .
Sampling Points	Reservoir Extraction Wells
Critical Sampling	None

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<sup>(1)</sup> Required detection limits are provided in Table B.4 of the Revised QAPP.

# APPENDIX B QUALITY ASSURANCE PROJECT PLAN

#### **B.1 INTRODUCTION**

1. This Supplemental Quality Assurance Project Plan (QAPP) has been prepared for the Waste Disposal, Inc. site to guide the reservoir liquids treatability study.

#### **B.2 PROJECT DESCRIPTION**

1. As discussed in TM No. 13, the objective of the sampling and analysis of the reservoir liquids is to obtain additional data on the reservoir liquid chemical characteristics and to provide data to make adjustments to the influent from the wells or the treatment plant operations.

#### **B.3 PROJECT ORGANIZATION AND RESPONSIBILITY**

#### **B.3.1 PROJECT ORGANIZATION**

1. See Appendix B Revised Quality Assurance Project Plan, Rev. 3.0.

#### **B.4 DATA QUALITY OBJECTIVES**

#### **B.4.1 DATA QUALITY OBJECTIVE DEVELOPMENT**

1. Data Quality Objectives for the reservoir sampling are provided in Table A.1 of the Revised FSAP.

#### B.4.2 SPECIFIC DATA QUALITY OBJECTIVES

1. The DQOs, including detection limits, accuracy, precision and completeness are presented in Table B.1 for each of the analytical methods. Data from reservoir liquids sampling will need to achieve Level 2 QA/QC requirement for site characterization data. The specific contaminants of concern for the WDI site are listed in Table B.1, with their corresponding DQOs for each concern.

#### **B.5 SAMPLING PROCEDURES**

#### **B.5.1 SAMPLE DESIGNATION**

- 1. Sample Designation Procedures are provided in SOP H.
- 2. Information on analytical parameters, sample containers, methods of preservation and holding times are presented in Table B.1.

#### **B.5.2 SAMPLING METHODS REQUIREMENTS**

#### **B.5.2.1** Standard Operating Procedures

- 1. As previously stated, the QAPP focuses on the use of SOPs. A major function of this QAPP is to provide a library of SOPs that are generally applicable to QA/QC activities. The SOPs encompass the following requirements as listed below:
  - Ground Water Well Monitoring/Sampling
  - Well Sounding
  - Equipment Decontamination
  - Sample Transport
  - Sample Chain-of-Custody
  - Sample Documentation
- 2. SOPs are provided in Attachment C.

#### B.5.2.2 Water Level Measurements

- 1. Water levels will be measured with an electric well sounder and steel tape as provided in SOP F. Measurements will be recorded to the nearest 0.01-foot. The sounder will be battery-operated and have marks on the sounder line at regular intervals (every 0.10 feet). If possible, water levels will be measured with the same sounder. The sounder will be accompanied by a calibration log book which will be used to record the following:
  - Data and time of last calibration.
  - Name of calibrator.
  - The point of calibration (either the center of a mark on the sounding line or the extreme of the first mark nearest the probe).
- 2. The sounder cable and probe will be thoroughly decontaminated after each use.

#### B.6 SAMPLE HANDLING AND CHAIN-OF-CUSTODY RECORDS

#### **B.6.1 CHAIN-OF-CUSTODY RECORDS**

1. A Chain-of-Custody record will be used as physical evidence to document sample custody. The Chain-of-Custody records are provided in SOP I.

#### **B.6.2 SAMPLE HANDLING**

#### B.6.2.1 Sample Containers

1. Sample containers will meet or exceed EPA Level 3 requirements and will be certified clean by the supplier prior to use. Sample container types are specified in Table B.1 for each type of analysis requested.

#### B.6.2.2 <u>Sample Preservation</u>

1. Sample preservation requirements are specified in Table B.1 for each type of analysis requested, and media.

#### B.6.2.3 Sample Shipment

1. Samples will be packed in the following manner for shipment as provided in SOP H.

#### B.7 CALIBRATION PROCEDURES AND FREQUENCY

#### **B.7.1 FIELD CALIBRATION PROCEDURES**

1. Not required.

#### **B.7.2 LABORATORY CALIBRATION PROCEDURES**

1. Calibration procedures will be as defined in EPA standard methods. For additional information, see Revised Quality Assurance Project Plan, Rev. 3.0.

#### **B.8 ANALYTICAL PROCEDURES AND METHODS**

1. A summary of the analytical procedures for ground water and subsurface gas samples, the analytical QA control limits and the detection limits to be used for the listed parameters are presented in Table B.1.

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2. Analyses for VOCs, SVOCs, pesticides and metals will be conducted pursuant to EPA SW-846 requirements, including detection limits, accuracy, precision, surrogate recoveries, duplicate samples and matrix spikes as indicated in Table B.2. For purposes of this QAPP, EPA SW-846 requirements have been incorporated by reference.

#### B.9 DATA REVIEW, VALIDATION, VERIFICATION AND REPORTING

1. See Revised Quality Assurance Project Plan, Rev. 3.0.

#### **B.10 QUALITY CONTROL CHECKS AND REQUIREMENTS**

#### B.10.1 GROUND WATER SAMPLE QUALITY CONTROL

1. Table B.\_ outlines the basic field QC requirements for water samples. Liquid sampling requires trip blanks (only for VOCs), field blanks and field duplicates.

#### **B.10.2 LABORATORY QUALITY CONTROL PROCEDURES**

1. Laboratory QC procedures will be consistent with EPA Level 3 QC guidelines, as indicated in EPA SW-846. See Revised Quality Assurance Project Plan, Rev. 3.0.

#### **B.11 PERFORMANCE AND SYSTEM AUDITS**

#### **B.11.1 PERFORMANCE AUDITS**

1. See Revised Quality Assurance Project Plan, Rev. 3.0.

#### **B.11.2 FIELD AUDITS**

1. See Revised Quality Assurance Project Plan, Rev. 3.0.

#### **B.11.3 LABORATORY AUDITS**

1. See Revised Quality Assurance Project Plan, Rev. 3.0.

#### B.12 PREVENTATIVE MAINTENANCE PROCEDURES AND SCHEDULES

1. See Revised Quality Assurance Project Plan, Rev. 3.0.

#### B.13 SPECIFIC ROUTINE PROCEDURES TO ASSESS QUALITY ASSURANCE OBJECTIVES MEASUREMENT PARAMETERS

1. See Revised Quality Assurance Project Plan, Rev. 3.0.

#### **B.14 CORRECTIVE ACTION**

1. See Revised Quality Assurance Project Plan, Rev. 3.0.

#### **B.15 QUALITY ASSURANCE REPORTS TO MANAGEMENT**

1. See Revised Quality Assurance Project Plan, Rev. 3.0.

#### **B.16 DOCUMENTATION AND RECORDS KEEPING**

1. See Revised Quality Assurance Project Plan, Rev. 3.0.

#### **B.18 REFERENCES**

EPA Order 5360.1. Policy and Program Requirements to Implement the Mandatory Quality Assurance Program, U.S. Environmental Protection Agency, Washington, DC (April 1984).

48 CFR Chapter 15, Subpart 1546.2, "Contract Quality Requirements."

ISO 8402-1994, Quality Management and Quality Assurance - Vocabulary (April 1994).

QAMS-005/80, Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans, U.S. EPA (December 1980).

Guidance for the Data Quality Objectives Process, EPA QA/G-4, U.S. EPA (August 1994).

EPA Requirements for Quality Assurance Project Plans for Environmental Data Operations. EPA QA/R-5. U.S. EPA 1994 Draft Final.

EPA Requirements for Quality Management Plans. EPA QA/R-2. August 1994.

Quality Management Program Plan for Region 10RQMP - 001/96.

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#### GROUND WATER ANALYSES(1) AND QUALITY CONTROL OBJECTIVES

WASTE DISPOSAL, INC. (Continued)

				(Collination)	,				Page 2 of
PARAMETERS	ANALYTICAL PROCEDURE	MEA	SUREMENT QUA	ORY SPECIFIC LITY OBJECTIVES	(MQOs)	TYPE OF	PRESERVATIVE	ANALYTICAL HOLDING	REMARKS
TARAMETERS	(EPA Method No.)	Detection Limit (µg/L)	Accuracy <sup>(2)</sup> (%)	Precision <sup>(3)</sup> (%)	Completeness (%)	CONTAINER	FRESERVATIVE	TIMES	KEWAKKS
VOLATILE ORGANIC		1				1			
COMPOUNDS (VOCs)									
(Continued)						İ		1	
Chloroform	8260	0.5	77 - 128	± 30	90	1	ĺ	[ [	
Chloromethane	8260	0.5	37 - 129	± 30	90				
• cis-1,3-Dichloropropene	8260	0.5	66 - 129 56 - 142	± 30	90	J	· ·	]	
I,2, Dibromoethane     Methylana Chlarida	8260 8260	0.5 0.5	51 - 139	± 30	90 90				
Methylene Chloride     Tetrachloroethene	8260 8260	0.5	67 - 145	± 30 ± 30	90				
trans-1.2-Dichloroethee	8260 8260	0.5	48 - 134	± 30 ± 30	90	1			
trans-1,3-Dichloropropene	8260 8260	0.5	66 - 130	± 30 ± 30	90				
Trichloroethene	8260 8260	0.5	71 - 135	± 30	90				
Vinyl Acetate	8260	0.5	24 - 143	± 30	90	ł	}	1	
Vinyl Chloride	8260	0.5	48 - 140	± 30	90				
SVOCs						1-Liter	None.	7 Days to	
Acenaphthene	8270	5.0	51 - 126	± 30	90	Amber Glass Bottle	Cool to 4° C.	Extract.	
<ul> <li>Acenaphylene</li> </ul>	8270	5.0	56 - 131	± 30	90	with Teflon®		40 Days after	
Anthracene	8270	5.0	54 - 117	± 30	90	Seal,	,	Extraction	
Benzo(a)anthracene	8270	5.0	55 - 132	± 30	90	1			
<ul> <li>Benzo(b)fluoranthene</li> </ul>	8270	5.0	43 - 135	± 30	90				
<ul> <li>Benzo(k)fluoranthene</li> </ul>	8270	5.0	57 - 137	± 30	90				
<ul> <li>Benzo(g,h,i)perylene</li> </ul>	8270	5.0	36 - 157	± 30	90			1	
Benzo(a)pyrene	8270	5.0	51 - 141	± 30	90	1			
<ul> <li>bis(2-Chloroethyl)ether</li> </ul>	8270	5.0	48 - 117	± 30	90				
bis(2-Chloroisopropyl)ether	8270	5.0	39 - 155	± 30	90	[ ·		1 1	
<ul> <li>bis(2-Ethylhexyl)phthalate</li> </ul>	8270	5.0	15 - 176	± 30	90			1	
4-Bromophenyl-phenylether	8270	5.0	43 - 142	± 30	90				
Butylbenzylphthalate	8270	5.0	50 - 139	± 30	90			[	
<ul> <li>4-Chloroaniline</li> </ul>	8270	5.0	46 - 126	± 30	90				
<ul> <li>4-Chloro-3-methylphenol</li> </ul>	8270	5.0	49 - 133	± 30	90			] ]	
<ul> <li>2-Chloronaphthalene</li> </ul>	8270	5.0	36 - 97	± 30	90				
<ul> <li>4-Chlorophenyl-phenylether</li> </ul>	8270	5.0	49 - 134	± 30	90				
Chrysene	8270	5.0	55 - 134	± 30	90	J.		j 1	
<ul> <li>Dibenz(a,h)anthracene</li> </ul>	8270	5.0	41 - 144	± 30	90				
<ul> <li>Dibenz(a,h)acridine</li> </ul>	8270	5.0	(4)	± 30	90				
Dibenzofuran	8270	5.0	53 - 129	± 30	90				
Di-n-butylphthalate	8270	5.0	50 - 129	± 30	90				
1,2-Dichlorobenzene	8270	5.0	30 - 120	± 30	90				
1,3-Dichlorobenzene	8270	5.0	28 - 114	± 30	90		1	1 1	
1,4-Dichlorobenzene	8270	5.0	28 - 116	± 30	90				
3,3-Dichlorobenzidine	8270	5.0	1 - 262	± 30	90				
2,4-Dichlorophenol	8270	5.0	43 - 124	± 30	90				
Dimethylphthalate     A C Divisor 2 months let and 1	8270	5.0	55 - 134	± 30	90				
4,6-Dinitro-2-methylphenol	8270	25	38 - 147	± 30	90				
• 2,4-Dinitrophenol	8270	25	22 - 174	± 30	90				
• 2,4-Dinitrotoluene	8270	5.0	51 - 146	± 30	90				
2,6-Dinitrotoluene	8270	5.0	53 - 129	± 30	90				
Di-n-octylphthalate	8270	5.0	41 - 145	± 30	90			i I	
<ul> <li>Fluoranthene</li> </ul>	8270	5.0	52 - 128	± 30	90				

Includes reservoir liquids sampling and analyses.
 Based on Matrix Spike Percent Recovery.
 Based on Duplicate Samples.
 Insufficient spike data for setting accuracy limits.

TABLE B.1

#### GROUND WATER AND RESERVOIR LIQUIDS ANALYSES(1) AND QUALITY CONTROL OBJECTIVES WASTE DISPOSAL, INC.

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								1	1 ago 1 Oi
	ANALYTICAL	MEA	LABORAT SUREMENT QUA	ORY SPECIFIC LITY OBJECTIVES	(MQOs)	TYPE OF		ANALYTICAL	
PARAMETERS	PROCEDURE (EPA Method No.)	Detection Limit (µg/L)	Accuracy <sup>(2)</sup> (%)	Precision(3) (%)	Completeness (%)	CONTAINER	PRESERVATIVE	HOLDING TIMES	REMARKS
METALS						One I-Liter Bottle	Acidified to pH <2	6 Months	
Aluminum	6010A	10.0	80 - 120	± 30	90	Unfiltered/One 1-Liter	with Nitric Acid	0 Months	
Antimony	6010A	5.0	80 - 120	± 30	90	Bottle filtered	After Filtration		
Arsenic	7060	5.0	80 - 120	± 30	90	Bottle Interes	Aitel Filliation		
Barium	6010A	10.0	80 - 120	± 30	90				
Beryllium	6010A	2.0	80 - 120	± 30	90				
Cadmium	6010A	5.0	80 - 120	± 30	90	İ		1	
Calcium	6010A	60.0	80 - 120	± 30	90			•	
Cobalt	6010A	18.0	80 - 120	± 30	90			1	
Chromium	6010A	10.0	80 - 120	± 30	90				
• Iron	6010A	10.0	80 - 120	± 30	90			l	
• Lead	6010A	40.0	80 - 120	± 30 ± 30	90	[ [			
Magnesium	7421	3.0	80 - 120 80 - 120	± 30 ± 30	90	i l			
	6010A	30.0	80 - 120 80 - 120	± 30 ± 30	90	i I			
Manganese					90				
Mercury	6010A	2.0	80 - 120	± 30	90				
Nickel	7470	3.0	80 - 120	± 30				1	
Selenium	6010A	32.0	80 - 120	± 30	90				
Sodium	6010A	90.0	80 - 120	± 30	90				
Thallium	7740	6.0	80 - 120	± 30	90				
Vanadium	6010A	10.0	80 - 120	± 30	90				
• Zinc	6010A	40.0	80 - 120	± 30	90			1	
VOLATILE ORGANIC	<u> </u>				<del> </del>	Two 40 mL VOA Vials	Acidified to pH <2	14 Days	
COMPOUNDS (VOCs)							with Hydrochloric		
<ul> <li>1,1,1-Trichloroethane</li> </ul>	8260	0.5	71 - 132	± 30	90	1	Acid		
<ul> <li>1,1,2,2-Tetrachloroethane</li> </ul>	8260	0.5	76 - 136	± 30	. 90		1		
<ul> <li>1,1,2-Trichloroethane</li> </ul>	8260	0.5	67 - 133	± 30	90	1			
<ul> <li>1,1-Dichloroethane</li> </ul>	8260	0.5	49 - 135	± 30	90				
1,1-Dichloroethene	8260	0.5	48 - 146	± 30	90				
<ul> <li>1,2-Dichloroethane</li> </ul>	8260	0.5	68 - 129	± 30	90			.	
<ul> <li>1,2-Dichloropropane</li> </ul>	8260	0.5	42 - 131	± 30	90	i		[	
2-Butanone	8260	0.5	50 - 153	± 30	90				
2-Chloroethyl Vinyl Ether	8260	0.5	40 - 214	± 30	90				
2-Hexanone	8260	0.5	20 - 149	± 30	90				
4-Methyl-2pentanone	8260	0.5	40 - 125	± 30	90				
Acetone	8260	0.5	32 - 176	± 30	90				
Benzene	8260	0.5	72 - 124	± 30	90				
Bromodichloromethane	8260	0.5	69 - 132	± 30	90				
Bromoform	8260	0.5	53 - 148	± 30	90				
Bromomethane	8260	0.5	55 - 146	± 30	90				
Carbon Disulfide	8260	0.5	37 - 140	± 30	90				
Carbon Tetrachloride	8260 8260	0.5	70 - 140	± 30	90				
Caroon retractionate     Chloroethane	8260 8260	0.5	52 - 137	± 30	90				
· Cmoroemane	0200	U.J	34 - 137	# JU	90	<u> </u>			

Includes reservoir liquids sampling and analyses.
 Based on Matrix Spike Percent Recovery.
 Based on Duplicate Samples.



#### GROUND WATER ANALYSES(1) AND QUALITY CONTROL OBJECTIVES

WASTE DISPOSAL, INC. (Continued)

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PARAMETERS	ANALYTICAL PROCEDURE	MEA		ORY SPECIFIC LITY OBJECTIVES	(MQOs)	TYPE OF	PRESERVATIVE	ANALYTICAL HOLDING	REMARKS
FARAWEIERS	(EPA Method No.)	Detection Limit (µg/L)	Accuracy <sup>(2)</sup> (%)	Precision <sup>(3)</sup> (%)	Completeness (%)	CONTAINER	FRESERVATIVE	TIMES	REWARKS
SVOCs (Continued)									
Fluorene	8270	5.0	55 - 126	± 30	90	İ		Í	
<ul> <li>Indeno(1,2,3-ad)pyrene</li> </ul>	8270	5.0	30 - 172	± 30	90				
Isophorone	8270	5.0	39 - 126	± 30	90			l	
2-Methylnaphthalene	8270	5.0	36 - 124	± 30	90				
2-Methylphenol	8270	5.0	36 - 116	± 30	90	ł	ł	ł	
<ul> <li>4-Methylphenol</li> </ul>	8270	10.0	46 - 109	± 30	90				
2-Nitroaniline	8270	5.0	54 - 133	± 30	90	l			
<ul> <li>4-Nitroaniline</li> </ul>	8270	5.0	40 - 166	± 30	90	j		•	
2-Nitrophenol	8270	5.0	43 - 122	± 30	90	1	ļ	}	
<ul> <li>N-Nitrosophenylamine</li> </ul>	8270	5.0	(6)	± 30	90				
<ul> <li>N-Nitroso-di-n-propylanine</li> </ul>	8270	5.0	32 - 136	± 30	90				
<ul> <li>Naphthalene</li> </ul>	8270	5.0	40 - 110	± 30	90				
Nitrobenzene	8270	5.0	44 - 118	± 30	90				
<ul> <li>Pentachlorophenol</li> </ul>	8270	10.0	26 - 158	± 30	90	[			
Phenanthrene	8270	5.0	54 - 128	± 30	90	<u> </u>		,	
Phenol	8270	5.0	28 - 91	± 30	90				
Pyrene	8270	5.0	53 - 128	± 30	90 90				
1,2,4-Trichlorobenzene	8270	5.0	30 - 121	± 30		1		1	
2,4,5-Trichlorophenol	8270	5.0	49 - 143	± 30	90				
2,4,6-Trichlorophenol	8270	5.0	50 - 134	± 30	90	l			

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- Includes reservoir liquids sampling and analyses.
   Based on Matrix Spike Percent Recovery.
   Based on Duplicate Samples.
   Insufficient spike data for setting accuracy limits.
   Ground water samples will not be analyzed for pesticides/PCBs.
   Multiple peak chromatograms inhibit setting accuracy limits.
   Insufficient spike data available to set accuracy limits.

#### TABLE B.2

# LABORATORY QUALITY ASSURANCE REQUIREMENTS GROUND WATER AND RESERVOIR LIQUIDS ANALYSIS

WASTE DISPOSAL, INC.

<del></del>	·-			Page 1 of	
PARAMETER GROUP	CALIBRATION METHOD	CALIBRATION/QC SAMPLING FREQUENCY	ACCEPTANCE O	CRITERIA	
Metals (Method 6010A, 7062, 7421, 7470, 7740)	Calibration Curve	At start of analysis or when continuing calibration verification standard is out of control.	Per instrument operating manual		
	Initial Calibration Verification Standard	After calibration and before sample analysis	±10 percent of true value		
Calibration Blank Continuing Calibration Verification Standard Instrument Blank Method Blank Laboratory Duplicate  MS/MSD	Calibration Blank	Every 10 samples	<method limit<="" reporting="" td=""><td></td></method>		
	Continuing Calibration Verification Standard	Every 10 samples	±10 percent of expected value		
	Instrument Blank	1 every 10 samples	<method limit<="" reporting="" td=""><td></td></method>		
	Method Blank	1 every 20 samples	<method limit<="" reporting="" td=""><td></td></method>		
	Laboratory Duplicate	1 every 20 samples	Precision (%) See Table B.3 Accuracy (%) See Table B.3 Completeness (%) See Table B.3		
	1 every 20 samples	80 to 120 percent recovery			
	Laboratory Control Sample	1 every 20 samples	80 to 120 percent recovery		
Volatile Organic Compounds	Calibration Curve	At start of analysis or when continuing calibration verification standard is out of control	20 percent relative standard deviation if	average response factor is used.	
(Method 8260)	Initial Calibration Verification Standard	After calibration and before sample analysis	±15 percent of true value		
	Calibration Blank	Every 10 samples	<method limit<="" reporting="" td=""><td></td></method>		
	Continuing Calibration Verification Standard	Every 10 samples	±15 percent of true value		
	Instrument Blank	1 every 10 samples	<method limit<="" reporting="" td=""><td></td></method>		
	Method Blank	1 every 20 samples	<method limit<="" reporting="" td=""><td></td></method>		
	MS/MSD and LCS	1 every 20 samples	Precision (%) Accuracy (%) Completeness (%)	30 RPD 50 to 125 percent recovery 90 percent recovery	
	Surrogate Compound	Every sample	α, α, α-trifluorotoluene	86 to 115 percent recovery 86 to 115 percent recovery 86 to 115 percent recovery	

NOTE: MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample. RPD = Relative Percent Difference.



#### TABLE B.2

### LABORATORY QUALITY ASSURANCE REQUIREMENTS GROUND WATER AND RESERVOIR LIQUIDS ANALYSIS

#### WASTE DISPOSAL, INC.

(Continued)

		, , , , , , , , , , , , , , , , , , ,		Page 2 of 2	
PARAMETER GROUP	CALIBRATION METHOD	CALIBRATION/QC SAMPLING FREQUENCY	ACCEPTA	ANCE CRITERIA	
Semivolatile Organic Compounds	Calibration Curve (5 point)	At start of analysis or when continuing calibration verification standard is out of control	Per method		
(Method 8270)	Initial Calibration Verification Standard	After preparation of new calibration verification standards. Standard is from an independent.	±15 percent of expected value or within limits set by method		
	Calibration Blank	Every 10 samples	<method limit<="" reporting="" td=""></method>		
Verification	Continuing Calibration Verification Standard	Every 10 samples	±15 percent of expected value or within limits set by method		
	Method Blank	1 every 20 samples	<method limit<="" reporting="" td=""><td></td></method>		
MS/MSD and LCS Surrogate Compour	MS/MSD and LCS	1 every 20 samples	Precision (%) Accuracy (%) Completeness (%)	30 RPD 50 to 125 percent recovery 90 percent recovery	
	Surrogate Compound	Every sample	p-Terphenyl 2,4,6-Tribromophenol Nitrobenzene-d <sub>5</sub> 2-Fluorobiphenyl Phenol-d <sub>6</sub> 2-Fluorophenol	33 to 141 percent recovery 10 to 123 percent recovery 35 to 114 percent recovery 43 to 116 percent recovery 10 to 94 percent recovery 21 to 100 percent recovery	
Pesticides/PCBs (Method 8080)	Calibration Curve (5 point)	At start of analysis or when continuing calibration verification standard is out of control	Per method		
	Initial Calibration Verification Standard	After preparation of new calibration verification standards. Standard is from an independent.	±15 percent of expected value or	within limits set by method	
	Calibration Blank	Every 10 samples	<method limit<="" reporting="" td=""><td></td></method>		
	Continuing Calibration Verification Standard	Every 10 samples	±15 percent of expected value or	within limits set by method	
	Method Blank	1 every 20 samples	<method limit<="" reporting="" td=""><td></td></method>		
	MS/MSD and LCS	1 every 20 samples	Precision (%) Accuracy (%) Completeness (%)	30 RPD 50 to 125 percent recovery 90 percent recovery	
	Surrogate Compound	Every sample	Tetrachloro-m-xylene or decachlorobiphenyl	26 to 121 percent recovery	

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NOTE: MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample. RPD = Relative Percent Difference.



# TABLE B.3 FIELD COLLECTION QUALITY ASSURANCE REQUIREMENTS WASTE DISPOSAL, INC.

ANALYSIS	TRIP BLANK	FIELD BLANK <sup>(1)</sup>	FIELD DUPLICATE <sup>(2)</sup>	MATRIX SPIKE AND MATRIX SPIKE DUPLICATES <sup>(3)</sup>
GROUND WATER/LIQUID SAMPLES				
Organics <sup>(4)</sup>	1 per 20 samples or 1 per sample shipment, whichever is greater	1 per 20 samples or 1 per sample shipment, whichever is greater	1 per 10 samples or 1 per sample shipment, whichever is greater	1 per 20 samples or 1 per sample shipment, whichever is greater
Inorganics <sup>(5)</sup>	None	1 per 20 samples or 1 per sample shipment, whichever is greater	1 per 10 samples or 1 per sample shipment, whichever is greater	1 per 20 samples or 1 per sample shipment, whichever is greater

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<sup>(1)</sup> Field blanks will be collected during ground water and surface water sampling procedures only when nondedicated sampling equipment is used. Field blanks require an additional sample volume (see Tables B.1 and B.2). Note that field blanks will be labeled so the laboratory cannot determine that the sample is a field blank.

<sup>(2)</sup> Field duplicates require an additional sample volume (see Tables B.1 and B.2). Note that field duplicates will be labeled so the laboratory cannot determine that the sample is a field duplicate. Field duplicates will be collected as split samples from the actual sample collected.

<sup>(3)</sup> MS/MSD samples require two additional sample volumes for organic analysis. Matrix spike samples require an additional sample volume for inorganic analyses (see Table B.1).

<sup>(4)</sup> Includes VOCs, SVOCs and PCBs.

<sup>(5)</sup> Includes metals.

#### STANDARD OPERATING PROCEDURE E WELL LIQUID SAMPLING ACTIVITIES WASTE DISPOSAL, INC. SUPERFUND SITE

#### GENERAL 1.0

1. Ground water wells, probes, boreholes and other liquid collectors will be purged and sampled to supplement existing ground water quality data. This information will be evaluated and used to optimize the location and design of present and future site monitoring and collection systems. Appropriate health and safety, emergency response and Quality Assurance/Quality Control (QA/QC) procedures are provided in the Appendices of the Remedial Design Investigative Activities Workplan.

#### 2.0 TASK DESCRIPTION

1. Ground water monitoring wells, gas monitoring and extraction wells, gas monitoring probes, boreholes and collectors are purged and sampled to determine ground water quality. These various measurement points are hereinafter called "wells" in these Standard Operating Procedures (SOP).

#### REQUIRED MATERIALS

- The following materials are required for this procedure:
  - Centrifugal, submersible, peristaltic pump or bailer for purging and sample collection.
  - pH and temperature meter.
  - Specific conductance meter.

  - Sample containers (provided by selected laboratory, or equivalent, with appropriate preservatives as outlined in the Quality Assurance Project Plan [QAPP]).
  - Buckets and intermediate containers.
  - Coolers and ice.
  - Bailer cord.
  - Gloves (nitrile).
  - Chemical-free paper towels.
  - Plastic sheets.

  - Sample bottle labels. Field Activity Report forms and/or appropriate monitoring data sheets (see SOP J).
  - Monitoring well purge and sample form (see QAPP Figure B.1).
  - Timepiece.
  - Pen with indelible ink.

#### 4.0 TASK PERFORMANCE

#### 4.1 WELL PURGING PROCEDURES

1. Each well will be purged prior to sample collection. If practical, three well volumes of ground water will be withdrawn prior to sample collection; however, if the well can be purged dry, only one volume will be withdrawn. The volume of water present in each well will be computed based on the length of the water column, the well casing diameter and the diameter of the borehole (accounting for the porosity of the gravel pack in annulus). The volume of water required to be purged from the well will be calculated as follows:<sup>(1)</sup>

$$V = 7.48 \times N [\pi r^2 h + n(\pi R^2 h - \pi r^2 h)]$$
  
for N = 3 and n = 0.3, the equation becomes  
$$V = 70.5h (0.7r^2 + 0.3R^2)$$

where:

V = Volume to be pumped (gallons).

N = Number of well volumes to be pumped.

 $\pi = 3.14159.$ 

r = Radius of the well casing (in feet).

h = Saturated thickness (in feet) of ground water in the well, or the depth of well minus the depth to water (in feet).

n = Porosity of the gravel pack.

R = Radius of the borehole (feet).

2. Water will be purged from the bottom of the well screened interval. At the start of purging and after every well volume withdrawn, the temperature, conductivity, and pH of the purge water will be measured. A conventional pH meter with a combination gel-filled electrode, or equivalent, will be used for pH determinations. A combination electrical conductivity-temperature-salinity meter, or equivalent measuring device, will be used for determining conductivity and temperature. Samples will be collected when measurements do not vary by more than 10 percent over two consecutive measurements. As described in the QAPP, these instruments will be calibrated daily to maintain accuracy. Field parameter values will be recorded on the ground water sample collection record, along with the corresponding purge volume.

<sup>(1)</sup> Gigliello, L. 1984 Groundwater-Leachate Sampling. Technomic Publishing.

3. Purging will normally be accomplished with the use of a submersible pump or a bailer.

The submersible pumps will not be used for the collection of samples for analyses, however.

Upon completion of well purging, a representative ground water sample will be withdrawn by bailer, using the method below.

#### 4.2 WELL SAMPLING PROCEDURES

- 1. A low flow sampling pump will be used, in accordance with EPA guidance for ground water sampling. If samples cannot be obtained using this equipment, a clean, decontaminated Teflon® or stainless steel bailer and a spool of new, clean polypropylene rope, or equivalent bailer cord, will be used. The bailer will be fitted with a petcock valve to facilitate controlled filling of sample containers. Using the rope at the end of the spool, a bowline (or equivalent) secure knot will be tied through the bailer loop. The knot and the bailer will be inspected visually for security to assure that the parts are intact prior to inserting the bailer into the well.
- 2. The protective wrapping (which is around the bailer when they are procured) will be removed from the bailer, and the bailer will then be lowered into the monitoring well. The bailer and bailer rope will touch only clean surfaces, and handling of the bailer or rope will be done by individuals wearing surgical gloves. The bailer will not touch the ground surface during the bailing routine. Water samples will be obtained from midpoint or lower within the water column; this will be accomplished by lowering the bailer to the midpoint or lower before retrieving it from the well.
- 3. When removing the sample from its container to the sample bottle, the mixing of air will be minimized by tilting the sample bottle and allowing the water to run down the inside wall of the bottle. A gentle stream of water should exit the bailer valve. High velocities will cause oxygen uptake and loss of volatiles.
- 4. Plastic bottles without preservatives will be completely filled to minimize air contact; however, 1-liter, 1/2-gallon, 1-gallon, or 5-gallon glass bottles would be filled 90 percent full to allow room for expansion and contraction of liquid.
- 5. When sampling for volatile organic compounds (VOCs), the 40 milliliter (mL) sample vials will be completely filled and will have no headspace. To avoid aeration, the sampler will be held at an angle so that the stream of water flows down the side. The vial will be filled until it

overflows to eliminate air bubbles, and the Teflon<sup>®</sup>-lined cap will be replaced. A stainless steel cup may be used to fill the vial, if necessary. Two vials will be collected for each sample.

6. The vial will be turned upside-down and tapped to check for air bubbles. If bubbles are present, the vial will be disposed of, and a sample bottle filled.

#### 4.3 SAMPLE IDENTIFICATION PROCEDURES

- 1. Each sample collected will be identified as having originated from the site by prefacing each sample designation with "WDI" (for Waste Disposal, Inc.), will be identified by an alpha and numerical code, and will have an additional two-digit number as the last component of the sample identifier. The two-digit number will correspond to the ground water sampling round being performed. The sample identifier is illustrated below:
  - WDI-GMW-01-03 Existing Ground Water Monitoring Well No. 01, third sampling round for this well.

#### 4.4 ANALYTICAL PARAMETERS, METHODS AND SAMPLE PRESERVATION

1. Information on analytical parameters, sample containers, methods of preservation, and holding times are specified in the QAPP.

#### 4.5 SAMPLE CONTAINER REQUIREMENTS

1. Each sample container will be labeled with the name of the person taking the sample, date and time, identification code, type, preservation method, and analyses to be performed. The label will also indicate if the sample is to be held in appropriate storage by the laboratory until the geologist/engineer determines if analyses are to be performed based on initial analytical results for representative samples.

#### 4.6 BLANKS AND DUPLICATE SAMPLE PROCEDURES

1. Ground water sampling requires the use of trip blanks, equipment rinsates, field blanks, field duplicates, and background samples for QC purposes. These QC procedures are discussed in the QAPP.

- 2. Field ground water QC samples will be initially identified in the same manner as field samples and have the following suffix designation:
  - TB Trip Blank
  - FR Field Equipment Rinsate
  - FB Field Blank
  - FD Field Duplicate
  - FBM Filtration Blank Metals

An example of each is presented below:

- WDI-GMWTB-01
- WDI-GMWFR-01
- WDI-GMWFB-01
- WDI-GMWFD-01
- WDI-GMWFBM-01

The final number for the FD Sample is the designation of the specific well being sampled.

#### 4.7 SAMPLE PACKAGING AND TRANSPORTATION

- 1. Samples will be packed in the following manner for shipment. Detailed transportation procedures are provided in SOP H.
  - A custody seal will be placed on each sample container.
  - Each sample container will then be wrapped in bubble pack or other packing material, placed in separate, sealable plastic bags, and then placed in an ice chest precooled to 4 degrees Celsius (°C) with Blue Ice<sup>®</sup> packages or double-bagged ice packets.
  - The completed Chain-of-Custody record going to the laboratory will be placed in a sealable plastic bag, which will then be placed in the cooler.
  - The cooler lid will then be taped shut with strapping/packaging tape.
  - A custody seal will be completed, signed and attached to the lid and the front of the cooler for hinged coolers. Two custody seals will be attached to coolers with removable lids. One will be attached to the front and one to the back of these coolers.
  - The coolers will be hand-delivered or shipped via overnight carrier to the laboratory at the end of each day's sampling. Samples will be shipped in a manner such that the laboratory will receive them within 24 hours or less from the actual sampling times, depending on the holding times.

#### 4.8 PROCEDURES TO AVOID SAMPLE CONTAMINATION

1. Precautions will be taken to limit the contamination of samples from outside sources. Hands will be washed with distilled water, and rubber surgical gloves will be worn, especially if petroleum products are encountered. The order of sampling will be from the least contaminated well to the most contaminated well.

2. Only clean, decontaminated Teflon<sup>®</sup> or stainless steel bailers, or new disposable plastic bailers and new clean bailer cords will be used to sample the ground water. The bailer and bailer rope will touch only clean surfaces, and handling of the bailer or rope will be done by individuals wearing surgical gloves. The bailer will not touch the ground surface during the bailing routine.

#### 4.9 SAMPLE DOCUMENTATION AND LABELING PROCEDURES

1. Perform sample documentation in accordance with the procedures in the Field Sampling and Analysis Plan (FSAP) and SOP J. In addition, immediately record monitoring and measurement data in the Field Activity Report and/or an appropriate monitoring data sheet.

#### 4.10 CHAIN-OF-CUSTODY PROCEDURES

- 1. Chain-of-Custody procedures which are discussed in the QAPP and in SOP I will be used to maintain and document sample possessions. The Chain-of-Custody record will be initiated at the time of sampling and will contain the sample number, date and time, name and dated signature of the person taking the sample, as well as the methods by which each sample will be analyzed, and other pertinent information.
- 2. Sample transfers will be noted on the record sheet for each sample. Standardized Chain-of-Custody forms will be used for tracking samples for the point of origin in the field through laboratory processing and disposal.
- 3. More than one sample may appear on a Chain-of-Custody form. The form will accompany the samples, attached within the ice chest. One copy of each form will be retained by field personnel prior to shipment of the samples to the laboratory. An example Chain-of-Custody form is presented in Figure B.2 of the QAPP and Table 1 of SOP I. Copies of the Chain-of-Custody records completed by the laboratory will be returned with the results of laboratory analyses.

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4. For specific Chain-of-Custody procedures, refer to SOP I.

## STANDARD OPERATING PROCEDURE F WELL LIQUID LEVEL SOUNDING ACTIVITIES WASTE DISPOSAL, INC. SUPERFUND SITE

#### 1.0 GENERAL

1. Wells, probes, boreholes and other liquid collectors will be sounded to augment, supplement and confirm existing data related to liquids distribution. This information will be evaluated and used to optimize the location and design of present and future site monitoring and collection systems. Appropriate health and safety, emergency response and Quality Assurance/Quality Control (QA/QC) procedures are provided in the Appendices of the Remedial Design Investigative Activities Workplan.

#### 2.0 TASK DESCRIPTION

1. Ground water monitoring wells, gas monitoring and extraction wells, gas monitoring probes, boreholes and collectors are sounded to determine liquid level. These various measurement points are hereinafter called "wells" in these Standard Operating Procedures (SOP).

#### 3.0 REQUIRED MATERIALS

- 1. The following materials are required for this procedure:
  - Solinst water level meter with 300 feet of sounding line and a Type P.4 probe (or similar).
  - One 9-volt alkaline battery for power backup.
  - Field Activity Report forms and/or appropriate monitoring data sheets.
  - Timepiece.
  - Pen with indelible ink.

#### 4.0 TASK PERFORMANCE

#### 4.1 SAMPLE IDENTIFICATION PROCEDURES

The measurement procedure in this SOP is performed with a direct-read instrument.
 No samples are collected for subsequent offsite analysis. The use of a unique identifier to differentiate various collected samples is not applicable to direct-read field data which are

immediately recorded in the proper locations in a Field Activity Report and/or an appropriate monitoring data sheet. If the measurement points themselves do not already have unique identifiers (i.e. WDI-GW-03), such will be developed as appropriate.

#### 4.2 ANALYTICAL PARAMETERS, METHODS AND SAMPLE PRESERVATION

1. The measurement procedure in this SOP is performed with a direct-read instrument. The analytical parameters and methods are provided within the instrument and within this SOP. As samples are not collected, sample preservation methods and/or solutions are not required.

#### 4.3 SAMPLE CONTAINER REQUIREMENTS

1. The measurement procedure in this SOP is performed with a direct-read instrument. Samples will not be retained. There are no sample container requirements.

#### 4.4 SOUNDING PROCEDURES

- 1. Well sounding is conducted using a Solinst water level meter or similar device, which consists of a monitoring circuit for liquid level detection and a length of calibrated, coated wire. The other end of the line is secured to a spool, so that the line may be easily rolled.
- 2. To sound the well, remove the cap (if any) on top of the well, and lower the weighted end of the sounder into the well. If the well does not have a cap, remove a sampling port cap or unscrew the sample port labcock to insert the sounder. For some wells, the well cap may be removed. Lower the sounder until the buzzer on the sounder spool activates ("buzzes"), indicating liquids are at the sounder end. Because the sounder may give a false positive reading as it picks up moisture on the side of the well, bounce the sounder cable to shake off liquids. If the buzzer stays activated, note the depth as "depth to liquid." If the buzzer stops, continue lowering the sounder until it cannot be made to reset and record the depth in the Field Activity Report and/or an appropriate monitoring data sheet (e.g., Boring Log). Raise the probe above the liquid level and resubmerge two or three times to confirm an accurate reading of liquid level.

- 3. To sound total depth, lower the sounder until it is felt to hit the bottom of the well (tension on the line will reduce). To assure that the sounder is not "hung up" inside the well, shake the sounder cable and continue to lower the sounder, if possible. If not, record the reading as "total depth."
- 4. Note that there may be a correction factor which is applicable to the particular sounder, often indicated as inches of correction per 100 feet of measured sounding depth. Incorporate the correction factor in the sounding activities and document it in the Field Activity Report and/or appropriate monitoring data sheet.

#### 4.5 BLANKS AND DUPLICATE SAMPLE PROCEDURES

1. Blanks and duplicate samples are not applicable to direct-read field instruments. Such equipment is calibrated and receives preventative maintenance as described in the calibration section of the Quality Assurance Project Plan (QAPP).

#### 4.6 PROCEDURES TO AVOID SAMPLE CONTAMINATION

Sample contamination will generally not have an impact on obtaining good quality liquid level
measurements. However, cross contamination of liquids between wells may have a
significant adverse impact on liquid characterization activities (e.g., ground water monitoring).
Decontaminate the probe and sounding cable after use at each particular location in accordance
with procedures in the Field Sampling and Analysis Plan (FSAP) and SOP G.

#### 4.7 SAMPLE DOCUMENTATION AND LABELING PROCEDURES

Perform sample documentation in accordance with the procedures in the FSAP and SOP J.
 In addition, immediately record monitoring and measurement data in the Field Activity
 Report and/or an appropriate monitoring data sheet. As the monitoring and measurement procedure in this SOP is performed with a direct-read instrument, sample labeling is not required.

#### 4.8 SAMPLE PACKAGING AND TRANSPORTATION PROCEDURES

1. The monitoring and measurement procedure in this SOP is performed with a direct-read instrument. Sample packaging and transportation is not required.

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#### 4.9 CHAIN-OF-CUSTODY PROCEDURES

1. The monitoring and measurement procedure in this SOP is performed with a direct-read instrument. Chain-of-Custody documentation is not required.

#### STANDARD OPERATING PROCEDURE G EQUIPMENT DECONTAMINATION WASTE DISPOSAL, INC. SUPERFUND SITE

#### 1.0 GENERAL

1. Field sampling equipment will be decontaminated prior to and between drilling at each individual site location using these decontamination procedures to avoid cross contamination and to maintain the integrity of the samples. These procedures do not apply to disposable equipment. Appropriate health and safety, emergency response and Quality Assurance/Quality Control (QA/QC) procedures are provided in the Appendices of the Remedial Design Investigative Activities Workplan.

#### 2.0 TASK DESCRIPTION

1. Field sampling equipment will be decontaminated according to the following procedures to avoid cross contamination and to maintain the integrity of the samples.

## 3.0 REQUIRED MATERIALS

- 1. The following materials are required for this procedure:
  - Steam cleaner or high pressure hot water cleaner.
  - Nonphosphate detergent.
  - Tap water.
  - 0.1N nitric acid rinse solution.
  - Deionized/distilled water.
  - Pesticide grade solvent rinse solution.
  - Three buckets.
  - Brushes.
  - Paper towels.
  - Disposable (Nitrile) gloves.

#### 4.0 TASK PERFORMANCE

#### 4.1 EQUIPMENT DECONTAMINATION PROCEDURES

- 1. Augers (including hand augers and hydraulically pushed sampler units) will be decontaminated prior to and between drilling at each borehole site by steam cleaning or high pressure hot water cleaning.
- 2. The drilling rig may be decontaminated at anytime during the sampling program, if the field geologist or engineer believes the integrity of vapor wells may be affected by contaminated conditions on the rig. Decontamination will consist of steam cleaning or high-pressure washing of truck wheels, chassis, or other rig components affected.
- 3. Nondisposal sampling equipment (e.g., stainless steel bailer) will be decontaminated at the location where it was used.
- 4. The following is the general decontamination procedure for field equipment used in the subsurface investigation:
  - Removal of soil and placement in drum.
  - Washing and scrubbing with nonphosphate detergent.
  - Tap water rinse.
  - 0.1N nitric acid rinse (when cross contamination from metals is a concern).
  - Deionized/distilled water rinse.
  - Pesticide grade solvent rinse (when semivolatile organic compounds [SVOCs] and nonvolatile organic compounds [non-VOC] contamination may be present).
  - Isopropyl alcohol rinse.
  - Deionized/distilled water rinse.
  - Organic-free water rinse.
  - Air dry.
  - Wrapping in aluminum foil, shiny side out, for transport.

#### 4.2 SAMPLE IDENTIFICATION PROCEDURES

1. The decontamination procedures in these Standard Operating Procedures (SOP) will not generate samples. However, soil cuttings will be field analyzed using direct-read instruments. Sample identification is not required as indicated in Appendix D, Waste Materials Disposal Plan.

#### 4.3 ANALYTICAL PARAMETERS, METHODS AND SAMPLE PRESERVATION

1. The decontamination procedures in this SOP will not generate samples. Laboratory analytical parameters, methods and sample preservation are not required.

#### 4.4 SAMPLE CONTAINER REQUIREMENTS

1. The decontamination procedures in this SOP will not generate samples. Sample containers are not required.

#### 4.5 BLANKS AND DUPLICATE SAMPLE PROCEDURES

 The decontamination procedures in this SOP will not generate samples. Sample duplicates are not required.

#### 4.6 SAMPLE PACKAGING AND TRANSPORTATION

1. The decontamination procedures in this SOP will not generate samples. Soil sample packaging or transportation are not required.

#### 4.7 PROCEDURES TO AVOID SAMPLE CONTAMINATION

1. The decontamination procedures in this SOP will not generate samples.

#### 4.8 SAMPLE DOCUMENTATION AND LABELING PROCEDURES

1. The decontamination procedures in this SOP will not generate samples. Sample documentation and labeling are not required.

#### 4.9 CHAIN-OF-CUSTODY PROCEDURES

1. The decontamination procedures in this SOP will not generate samples. Chain-of-Custody documentation is not required.

# STANDARD OPERATING PROCEDURE H SAMPLE PACKAGING AND TRANSPORTATION PROCEDURES WASTE DISPOSAL, INC. SUPERFUND SITE

#### 1.0 GENERAL

Samples collected pursuant to Waste Disposal, Inc. (WDI) activities are required to be handled and transported using this sample transportation procedure. This procedure does not apply to samples processed solely by direct-read filed instruments, including, but not limited to the following instruments: (1) Flame Ionization Detector/Photoionization Detector (FID/PID);
 (2) GX-3N; (3) thermometer; and (4) barometer. Appropriate health and safety, emergency response and Quality Assurance/Quality Control (QA/QC) procedures are provided in the Appendices of the Remedial Investigative Activities Workplan.

#### 2.0 TASK DESCRIPTION

1. Collected samples will be transported using this sample transportation procedure.

#### 3.0 REQUIRED MATERIALS

- 1. The following materials are required for this procedure:
  - Chain-of-Custody seal(s).
  - Bubble pack or equivalent packing material.
  - Plastic, sealable bags.
  - Precooled ice chest.
  - Blue Ice® packages or double-bagged ice packets.
  - Completed Chain-of-Custody record.
  - Packaging tape.

#### 4.0 TASK PERFORMANCE

#### 4.1 SAMPLE PACKAGING PROCEDURES

- 1. Samples will be packed in the following manner for shipment:
  - A Chain-of-Custody seal will be placed on each sample container.
  - Each sample container will then be wrapped in bubble pack or other packing material, placed in separate, sealable plastic bags, and then placed in an ice chest precooled to 4 degrees Celsius (°C) with Blue Ice<sup>®</sup> packages or double-bagged ice packets.

- The completed Chain-of-Custody record going to the laboratory will be placed in a sealable plastic bag, which will then be placed in the cooler.
- The cooler lid will then be taped shut with strapping/packaging tape.
- A Chain-of-Custody seal will be completed, signed and attached to the lid
  and the front of the cooler for hinged coolers. Two custody seals will be
  attached to coolers with removable lids. One will be attached to the front
  and one to the back of these coolers.

#### 4.2 SAMPLE TRANSPORTATION PROCEDURES

The coolers will be hand-delivered or shipped via overnight carrier to the laboratory at the end
of each day's sampling. Samples will be shipped in a manner such that the laboratory will
receive them within 24 hours or less from the actual sampling times, depending on
holding times.

#### 4.3 SAMPLE IDENTIFICATION PROCEDURES

1. The sample packaging and transportation procedures in these Standard Operating Procedures (SOP) will not generate samples. Sample identification is not required.

#### 4.4 ANALYTICAL PARAMETERS, METHODS AND SAMPLE PRESERVATION

1. The sample packaging and transportation procedures in this SOP will not generate samples. Laboratory analytical parameters, methods and sample preservation are not required.

#### 4.5 SAMPLE CONTAINER REQUIREMENTS

1. The sample packaging and transportation procedures in this SOP will not generate samples. Sample containers are not required.

#### 4.6 BLANKS AND DUPLICATE SAMPLE PROCEDURES

1. The sample packaging and transportation procedures in this SOP will not generate samples. Sample duplicates are not required.



#### 4.7 PROCEDURES TO AVOID SAMPLE CONTAMINATION

1. The sample packaging and transportation procedures in this SOP will not generate samples. Hands will be washed and gloves (nitrile) will be worn before handling sample containers to minimize chances of cross contamination.

#### 4.8 SAMPLE DOCUMENTATION AND LABELING PROCEDURES

1. The sample packaging and transportation procedures in this SOP will not generate samples. Sample documentation and labeling is not required.

#### 4.9 CHAIN-OF-CUSTODY PROCEDURES

1. The sample packaging and transportation procedures in this SOP will not generate samples. Refer to SOP I for detailed Chain-of-Custody requirements.

#### STANDARD OPERATING PROCEDURE I SAMPLE CHAIN-OF-CUSTODY WASTE DISPOSAL, INC. SUPERFUND SITE

#### 1.0 GENERAL

Samples collected pursuant to Waste Disposal, Inc. (WDI) activities are required to be handled and transported using this Chain-of-Custody procedure as physical evidence of sample custody. This procedure does not apply to samples processed solely by direct-read filed instruments, including, but not limited to the following instruments: (1) Flame Ionization Detector/Photoionization Detector (FID/PID); (2) GX-3N; (3) Organic Vapor Analyzer (OVA); (4) thermometer; and (5) barometer. Appropriate health and safety, emergency response and Quality Assurance/Quality Control (QA/QC) procedures are provided in the Appendices of the Remedial Investigative Activities Workplan.

#### 2.0 TASK DESCRIPTION

1. Collected samples will be transported using this Chain-of-Custody procedure, which provides the means to identify, track and monitor the Chain-of-Custody of each individual sample from the point of collection through data analysis.

# 3.0 REQUIRED MATERIALS

- 1. The following materials are required for this procedure:
  - Quality Assurance Project Plan (QAPP) Figure B.2 Chain-of-Custody record(s), of sufficient quantity for the planned sampling activity.
  - record(s), of sufficient quantity for the planned sampling activity.

     QAPP Figure B.3 Sample Chain-of-Custody Seals, of sufficient quantity for the planned sampling activity.
  - Pen with indelible ink.

#### 4.0 TASK PERFORMANCE

#### 4.1 CHAIN-OF-CUSTODY PROCEDURES

1. A Chain-of-Custody record is required for each shipment of samples. Table 1 needs to be completed with applicable information for each sample in the shipment. The record is

- completed in indelible ink. Changes or corrections to the record consist of line-out deletions (e.g., no "white-out" correction fluid) which are initialed and dated by the author of the change or correction.
- 2. The Chain-of-Custody record is completed by a field technician who performed and/or witnessed the sample collection activity(ies). After completion of the record down through the initial "Relinquished by:" row, a copy is made of the record for retention by the originating field technician or designee. The original record is then sealed in a plastic bag and secured in the shipping container. The shipping container is then closed and sealed.
- 3. The person relinquishing the samples places completed Chain-of-Custody seals on the sample and/or the shipping container. Chain-of-Custody seals are gummed paper seals or similar devices which contain the signature and date of the relinquishing person. Chain-of-Custody seals are affixed in such a way that the sample and/or shipping containers cannot be opened without breaking the seal. When samples are shipped, a minimum of two custody seals are affixed to each shipping container in such a way which would indicate if the container was opened in transit.
- 4. The shipping container is not opened and the Chain-of-Custody seals are not broken or otherwise tampered with until the shipping container is received at the analytical laboratory. If this is not the case, the intermediate person(s) taking temporary custody of the samples must acknowledge his/her formal custody by completing the first incomplete "Received by:" row and then later the subsequent "Relinquished by:" row on the Chain-of-Custody record, and placing fresh Chain-of-Custody seals with the current signature and date on the shipping container (as described in Item 3 above). This process is repeated as necessary to reflect other intermediate custody of the samples. Note that the preference is that neither the courier nor other intermediate party open the shipping container and thereby take formal custody of the samples. Intermediate custody should solely be "superficial" custody of the closed and sealed shipping container, which does not warrant documentation on the Chain-of-Custody record.
- 5. The person relinquishing the samples to the courier retains a copy of the shipping paper.
- 6. The laboratory representative who accepts the incoming sample shipment at the receiving laboratory will complete the first incomplete "Received by:" row on the Chain-of-Custody record to acknowledge receipt of the samples. This signed original (or a copy) will then be returned with the analytical reports.

7. The laboratory representative who accepts the incoming sample shipment at the receiving laboratory will inspect the samples. If the Chain-of-Custody seals or sample containers are broken or have been tampered with, if the signature and date on the shipping container Chain-of-Custody seals does not match that of the last "Relinquished by:" information on the Chain-of-Custody record, if there is a discrepancy between the actual sample identification numbers and those noted on the Chain-of-Custody record or if there is other apparent discrepancy or potential anomaly, the samples will not be analyzed until the issue is resolved through contact with the originating field technician or his/her Monitoring Foreman. The laboratory will provide such notification by the most expedient method (e.g., telephone and/or facsimile), followed by a written notification. A complete copy of the documentation of the issue and its resolution will be provided by the laboratory with the analytical reports.

#### 4.2 SAMPLE IDENTIFICATION PROCEDURES

1. The Chain-of-Custody procedures in these Standard Operating Procedures (SOP) will not generate samples. Sample identification is not required.

#### 4.3 ANALYTICAL PARAMETERS, METHODS AND SAMPLE PRESERVATION

1. The Chain-of-Custody procedures in this SOP will not generate samples. Laboratory analytical parameters, methods and sample preservation are not required.

#### 4.4 SAMPLE CONTAINER REQUIREMENTS

1. The Chain-of-Custody procedures in this SOP will not generate samples. Sample containers are not required.

#### 4.5 BLANKS AND DUPLICATE SAMPLE PROCEDURES

1. The Chain-of-Custody procedures in this SOP will not generate samples. Sample duplicates are not required.

#### 4.6 SAMPLE PACKAGING AND TRANSPORTATION

1. The Chain-of-Custody procedures in this SOP will not generate samples. Sample packaging or transportation are not required.

#### 4.7 PROCEDURES TO AVOID SAMPLE CONTAMINATION

1. The chain-of-custody procedures in this SOP will not generate samples.

#### 4.8 SAMPLE DOCUMENTATION AND LABELING PROCEDURES

1. The Chain-of-Custody procedures in this SOP will not generate samples. Sample documentation and labeling are not required.

### STANDARD OPERATING PROCEDURE J FIELD SAMPLE DOCUMENTATION WASTE DISPOSAL, INC. SUPERFUND SITE

#### 1.0 GENERAL

1. Monitoring and sample collection activities conducted at the Waste Disposal, Inc.(WDI) site require standardized documentation. Appropriate health and safety, emergency response and Quality Assurance/Quality Control (QA/QC) procedures are provided in the Appendices of the Remedial Design Investigative Activities Workplan.

#### 2.0 TASK DESCRIPTION

 Documentation of monitoring and sample collection activities utilizes standard forms and format.

#### 3.0 REQUIRED MATERIALS

- 1. The following forms are required for this procedure:
  - Table 1 Field Activity Report.
  - Appropriate monitoring data sheets as indicated by particular activity documents (e.g., Technical Memoranda [TMs]). The following example monitoring data sheets are included with this Standard Operating Procedures (SOP):
    - Table 2 Well Monitoring Data Sheet
    - Table 3 Gas Probe Monitoring Data Sheet
    - Table 4 Well Depth and Liquid Soundings Monitoring Data Sheet
    - Figure 1 Field Boring Log

These examples are for certain routine monitoring events. Other forms may be used. The Field Activities Report and/or appropriate monitoring data sheets are determined on an event-specific basis.

#### 4.0 TASK PERFORMANCE

#### 4.1 SAMPLE DOCUMENTATION PROCEDURES

- 1. Monitoring and sample collection activities are documented with thorough and accurate record keeping on Field Activity Report (Table 1) forms and/or appropriate monitoring data sheets. Entries on those forms include the following information, as applicable:
  - Name of sampler.
  - Sample identification number(s).
  - Physical conditions during sampling.
  - Climatic conditions.
  - Date and time of collection.
  - Sample collection procedure/equipment.
  - Sample identification and volume of sample(s).
  - Types of sample containers collected.
  - Parameters requested for analysis.
  - Duplicates collected and identification numbers.
  - Type and number of blanks collected and identification numbers.
  - Field observations.
  - Decontamination procedures.
  - Name of courier and laboratory.
- 2. Documentation will provide sufficient information to reconstruct the monitoring or sampling event without relying on the field technician's memory. Field Activity Reports and/or appropriate monitoring data sheets will be completed at the time of the activity or immediately thereafter.

#### 4.2 SAMPLE IDENTIFICATION PROCEDURES

1. The documentation procedures in this SOP will not generate samples. Sample identification is not required.

#### 4.3 ANALYTICAL PARAMETERS, METHODS AND SAMPLE PRESERVATION

1. The documentation procedures in this SOP will not generate samples. Laboratory analytical parameters, methods and sample preservation are not required.

#### 4.4 SAMPLE CONTAINER REQUIREMENTS

1. The documentation procedures in this SOP will not generate samples. Sample containers are not required.

#### 4.5 BLANKS AND DUPLICATE SAMPLE PROCEDURES

 The documentation procedures in this SOP will not generate samples. Sample duplicates are not required.

#### 4.6 SAMPLE PACKAGING AND TRANSPORTATION

1. The documentation procedures in this SOP will not generate samples. Soil sample packaging or transportation are not required.

#### 4.7 PROCEDURES TO AVOID SAMPLE CONTAMINATION

1. The documentation procedures in this SOP will not generate samples.

#### 4.8 CHAIN-OF-CUSTODY PROCEDURES

1. The documentation procedures in this SOP will not generate samples.

#### STANDARD OPERATING PROCEDURE O TANK AND/OR DRUM LIQUIDS SAMPLING ACTIVITIES WASTE DISPOSAL, INC. SUPERFUND SITE

#### 1.0 **GENERAL**

Baker tanks and 55 gallon drums will be sampled to supplement characterization of stored liquids on site. The analytical data obtained from these samples will be evaluated and used to select the appropriate final TSD facility. Appropriate health and safety, emergency response and Quality Assurance/Quality Control (QA/QC) procedures are provided in the Appendices of the Remedial Design Investigation Activities Workplan.

#### 2.0 TASK DESCRIPTION

Sample Collection of liquids produced during site activities are sampled using a Coliwasa sampler or equivalent.

#### 3.0 REQUIRED MATERIALS

- The following materials are required for this procedure:
  - Coliwasa sampler or equivalent.
  - Sample containers (provided by the selected laboratory, or equivalent, with appropriate preservations as outlined in the Quality Assurance Project Plan (QAPP). Cooler and ice.

  - Nitrile gloves.
    Sample bottle labels.
  - Fluid Activity Report and/or sample log book.
  - Timepiece.
  - Pen with indelible ink.
  - Five gallon buckets.
  - Non-phosphate detergent.
  - 0.1 N Nitric acid rinse solution.
  - Distilled/deionized water.
  - Brushes.
  - Tap water.
  - Isopropyl alcohol.

#### 4.0 TASK PERFORMANCE

#### 4.1 SAMPLE COLLECTION PROCEDURES

- 1. Lower the sampler into the container and pull up the plunger to allow liquids to flow into the sampler. Each sample should be a composite collected from the top 1/3, midpoint and bottom 1/3 of the liquid column. The sampler should only be handled by individuals weaving nitrile gloves and should not touch the sides or bottom of the container.
- 2. Transfer the sample from its container to a sample bottle, tilt the bottle to allow the water to run down the inside wall of the bottle to prevent mixing the sample with air. A gentle stream of water should exit the sampler. High velocities can cause oxygen uptake and loss of volatile organic compounds (VOCs).
- 3. Plastic bottle without preservative will be filled completely to minimize air contact. Glass bottles will be filled 90 percent to allow room for expansion and contraction of the liquid.
- 4. Dissolved metals samples need to be field filtered prior to filling the prepared containers. Bailed liquids will be transferred to a "Norton-Norwell" pressurized bailing system, or equivalent, for filtration through a 0.45 micron disposable filter.
- 5. When sampling for VOCs, the 40 millimeter sample vial will be held at an angle so the stream of water runs down the inside of the vial. The vial will be filled until it overflows to eliminate air bubbles and the Teflon-lined cap replaced.
- 6. The vials will be turned upside down and typed to check for air bubbles. All vials must have no headspace. If bubbles are present, the vial will be disposed of and a new sample vial filled.
- 7. While drawing samples from a sample port, the flow should be controlled by positioning the valve on the port such that a continuous, low-flow condition is established. If the flow from the port is turbulent, causing air bubbles in the stream, a Tygon tubing should be attached to the port to direct the stream into a more laminar flow condition, thereby decreasing the incidence of air bubbles. A stopcock will be placed at the end of the tubing; samples will be drawn as the tubing fills with liquid. Clean stopcocks and Tygon tubing will be used at each sampling location. Tygon tubing will not be reused, and must be disposed.

O-2

8. Sample bottles will be kept at 0 to 4 degrees Celsius (°C) in an iced cooler/chest so they remain cool prior to sampling. Filled sample bottles will be packaged and placed directly into an iced cooler/chest.

#### 4.2 SAMPLE IDENTIFICATION PROCEDURES

- 1. Each sample collected will be identified as having originated from the site by prefacing each sample designation with "WDI" (for Waste Disposal, Inc.) followed by an alpha and numerical code. The sample identifier is illustrated below:
  - WDI-BT 1000-01-01-99 as Baker Tank (BT) #1000 sampled January 1, 1999
  - WDI-PD 001-01-01-99 as Product Drum #1 generated January 1, 1999

#### 4.3 SAMPLER DECONTAMINATION

1. Decontamination of the sample will be performed as described in SOP O of the RD Investigative Workplan.

#### 4.4 ANALYTICAL PARAMETERS, METHODS AND SAMPLE PRESERVATION

1. Information on analytical parameters, sample containers, methods of preservation, and holding times are specified in the QAPP.

#### 4.5 SAMPLE CONTAINER REQUIREMENTS

1. Each sample container will be labeled with the name of the person taking the sample, date and time, identification code, type, preservation method, and analyses to be performed. The label will also indicate if the sample is to be held in appropriate storage by the laboratory until the geologist/engineer determines if analyses are to be performed based on initial analytical results for representative samples.

#### 4.6 SAMPLE PACKAGING AND TRANSPORTATION

- 1. Samples will be packed in the following manner for shipment. Detailed transportation procedures are provided in SOP H.
  - A custody seal will be placed on each sample container.
  - Each sample container will then be wrapped in bubble pack or other packing material, placed in separate, sealable plastic bags, and then placed in an ice chest precooled to 4 degrees Celsius (°C) with Blue Ice<sup>®</sup> packages or double-bagged ice packets.
  - The completed Chain-of-Custody record going to the laboratory will be placed in a sealable plastic bag, which will then be placed in the cooler.
  - The cooler lid will then be taped shut with strapping/packaging tape.
  - A custody seal will be completed, signed and attached to the lid and the front of the cooler for hinged coolers. Two custody seals will be attached to coolers with removable lids. One will be attached to the front and one to the back of these coolers.
  - The coolers will be hand-delivered or shipped via overnight carrier to the laboratory at the end of each day's sampling. Samples will be shipped in a manner such that the laboratory will receive them within 24 hours or less from the actual sampling times, depending on the holding times.

#### 4.7 PROCEDURES TO AVOID SAMPLE CONTAMINATION

- 1. Precautions will be taken to limit the contamination of samples from outside sources. Hands will be washed with distilled water, and rubber surgical gloves will be worn, especially if petroleum products are encountered. The order of sampling will be from the least suspected contaminated source to the most contaminated source.
- 2. Only clean, decontaminated Teflon<sup>®</sup> or stainless steel bailers, or new disposable plastic bailers and new clean bailer cords will be used to sample the ground water. The bailer and bailer rope will touch only clean surfaces, and handling of the bailer or rope will be done by individuals wearing surgical gloves. The bailer will not touch the ground surface during the bailing routine.

#### 4.8 SAMPLE DOCUMENTATION AND LABELING PROCEDURES

 Perform sample documentation in accordance with the procedures in the Field Sampling and Analysis Plan (FSAP) and SOP J. Record sampling data in the Field Log Book or Activity Report.

#### 4.9 CHAIN-OF-CUSTODY PROCEDURES

- Chain-of-Custody procedures which are discussed in the QAPP and in SOP I will be used to
  maintain and document sample possessions. The Chain-of-Custody record will be initiated at the
  time of sampling and will contain the sample number, date and time, name and dated signature of
  the person taking the sample, as well as the methods by which each sample will be analyzed, and
  other pertinent information.
- Sample transfers will be noted on the record sheet for each sample. Standardized
   Chain-of-Custody forms will be used for tracking samples for the point of origin in the field
   through laboratory processing and disposal.
- 3. More than one sample may appear on a Chain-of-Custody form. The form will accompany the samples, attached within the ice chest. One copy of each form will be retained by field personnel prior to shipment of the samples to the laboratory. An example Chain-of-Custody form is presented in Figure B.2 of the QAPP and Table 1 of SOP I. Copies of the Chain-of-Custody records completed by the laboratory will be returned with the results of laboratory analyses.
- 4. For specific Chain-of-Custody procedures, refer to SOP I.

# TABLE 1 FIELD ACTIVITY REPORT

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ATTACHMENT C